

API Reference

Semestry TermTime API

API Version: 7.7.0

API for adding objects to TermTime and querying.

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Security and Authentication

SECURITY SCHEMES

KEY	TYPE	DESCRIPTION
SemApiKeyAuth	apiKey	The api key is a 20 character alphanumeric key specific for a user in a database on a server. The key can be sent as a parameter or in the header. **Parameter:** https://hostname/v1/api/object?key=12345678... **Header:** Key=*Authorization* Value=*k12435678...*

API

1. ACTIVITY

1.1 GET /activities

Get all Activities

Return JSON array of all Activities

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
ready	string 1 to 1 chars	When included, 'Y' will return all ready activities and 'N' will return all activities that are not ready
meetingRequired	string 1 to 1 chars	When included, 'Y' will return all activities that require an online meeting, and 'N' will return all activities that do not
user1	string 0 to 255 chars	Filter the response by looking up the passed value in the user1 property of the object
user2	string 0 to 255 chars	Filter the response by looking up the passed value in the user2 property of the object
user3	string 0 to 255 chars	Filter the response by looking up the passed value in the user3 property of the object

REQUEST BODY - application/json

```
[{  
  Array of object:  
  n      string 1 to 255 chars  
          Offer code  
  m      string 1 to 255 chars  
          Module code  
  altc   string 1 to 255 chars  
          Offer alt code  
}]
```

RESPONSE

STATUS CODE - 200: A JSON array of Activity objects

RESPONSE MODEL - application/json

```
[{  
  Array of object:  
    optional      number      between 0 and 1  
                    A boolean flag to notify whether or not this activity may be skipped.  
    sequence      number  
                    When provided, the automatic scheduler must schedule exams with higher  
                    sequence numbers after exams with lower sequence numbers  
    fixedCampus   string  
    fixedBuilding string  
    code          string      min:1 chars  
                    A unique identifier for the Activity  
    capabilities  string      min:1 chars
```

coloc	string	CSV list of Capabilities 1 to 120 chars
colocatedActivities	[string]	The unique name of the colocation this activity belongs to min:1 chars
dayTemplate	string	A unique identifier for the Activity 1 to 45 chars
departmentCode	string	The name of the day template for the Activity 1 to 255 chars
description	undefined	A unique identifier for the Department of the Module of the Activity
duration	number	Free-text description of the Activity
events [{		The duration of the Activity as a number of Slot
Array of object:		
uniqueId	string	Unique name to identify the Activity's event
date	string	The date on which the Activity's event occurs
startTime	string	The time at which the Activity's event starts
endTime	string	The time at which the Activity's event ends
activityDurationMins	number	The duration of the Activity in minutes
week	number	The number of the week in the academic calendar counted from 1
}]		
exceptions [{		
Array of object:		
}]		
fixedDay	number	A number for the day of the week
fixedRooms	string	min:1 chars
		CSV list of Room Codes for the Activity's Fixed Rooms
fixedTime	number	The number of Slots between midnight and the Activity's Fixed (start) Time
friendlyName	string	1 to 255 chars
		Free-text alternative name for the Activity
moduleCode	string	1 to 255 chars
		A unique identifier for the Module to which the Activity belongs
moduleAltCode	string	1 to 64 chars
		A unique identifier for the Module to which the Activity belongs
name	string	1 to 100 chars
		Free-text name for the Activity
origin	string	If the Activity is an exception, then 'origin' is the code of the parent Activity
note	string	min:1 chars
		Free-text note for the Activity
offerAltCode	string	1 to 255 chars
		A unique identifier for the ModuleOffer to which the Activity belongs
offerName	string	1 to 255 chars
		The name of the Module Offer to which the Activity belongs
offer {		
The offer object this activity belongs to		
n	string	1 to 255 chars
		Offer code
m	string	1 to 255 chars
		Module code
altc	string	1 to 255 chars
		Offer alt code
groups [{		
Array of object:		
gc	string	1 to 45 chars
		Unique code to identify the Student Group
gn	string	1 to 255 chars
		Name for the Student Group
goUrl	string	The URL for this group-offer mapping
}]		
tags [{		

```

    Array of object:
    n string
  }]
}
planSize          number    The planned size (i.e. number of Students) for the Activity
ready            number    1 means the activity is ready, 0 means the activity is not ready
repeats [{
  Array of object:
}]
repeatOf          string    If the Activity is a repeat, then 'repeatOf' is the code of the parent Activity
repeatOrigin      string    If the Activity is a repeat, then 'repeatOf' is the code of the ultimate ancestor
                        Activity
scheduled         number    Boolean flag if the Activity is scheduled for at least one week, then 1. Otherwise 0
scheduledRooms    [string]  1 to 45 chars
                        Unique code to identify the Room
size             number    The planned or actual size (i.e. number of Students) enrolled in the Activity
staff            string    min:1 chars
                        CSV list of the Staff associated with the Activity
staff.json        [string]  1 to 45 chars
                        Unique code to identify the Staff

staff0objects [{
  Array of object:
    c string 1 to 45 chars
                        Unique code to identify the staff member
    n string 1 to 100 chars
                        Name of the staff member
}]
staffPublished    number    between 0 and 1
                        Boolean flag if the activity has been published to staff, then 1. If not published to
                        staff, 0.
studentPublished  number    between 0 and 1
                        Boolean flag if the activity has been published to students, then 1. If not published
                        to staff, 0.
studentGroups     string    min:1 chars
                        CSV list of the Student Groups enrolled in the Activity
student0objects [{
  Array of object:
    c string 1 to 255 chars
                        Unique code to identify the student
    n string 1 to 255 chars
                        Student name
}]
type              string    1 to 45 chars
                        The name of the Activity type
user1             string    1 to 255 chars
                        A user-defined, free-text string.
user2             string    1 to 255 chars
                        A user-defined, free-text string.
user3             string    1 to 255 chars
                        A user-defined, free-text string.
user4             string    1 to 255 chars
                        A user-defined, free-text string.
user5             string    1 to 255 chars
                        A user-defined, free-text string.
user6             string    1 to 255 chars
                        A user-defined, free-text string.
user7             string    1 to 255 chars
                        A user-defined, free-text string.
virtual          number    0 means the Activity is to be scheduled into a Room, 1 means the Activity is to be
                        scheduled into a time (but not a Room)

```

meetingRequired	number	0 means the Activity does not require an online meeting, 1 means the Activity requires an online meeting
meetingUrl	string	1 to 65535 chars The URL for the activity's online meeting
timeframe	string	1 to 110 chars The code of the Timeframe relative to which the weeks in the weekPattern must be evaluated
weekPattern	string	1 to 90 chars The weeks (relative to the Timeframe) into which the Activity is to be scheduled
isoweeks	string	min:6 chars The weeks into which the Activity is to be scheduled formatted as ISO 8601
capabilities.json	[string]	1 to 100 chars Unique name to identify the capability
fixedRooms.json	[string]	1 to 45 chars Unique code to identify the Room
studentGroups.json	[string]	1 to 45 chars Unique code to identify the Student Group
academics [{ Array of object:		
code	string	1 to 45 chars Code of the Staff member
role	string	1 to 45 chars The code of the Role performed by the Staff member for the Activity or Booking
}]		
tags	string	min:1 chars CSV list of tag names
tags.json	[string]	1 to 255 chars A tag name
}]		

1.2 GET /activity/{c}

Get one Activity

Get details for one Activity

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the Activity

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useUser2	number between 0 and 1	To be used when the User2 field code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: An Activity object

RESPONSE MODEL - application/json

```
{
  optional          number    between 0 and 1
  A boolean flag to notify whether or not this activity may be skipped.
```

sequence	number	When provided, the automatic scheduler must schedule exams with higher sequence numbers after exams with lower sequence numbers
fixedCampus	string	A unique identifier for a Campus
fixedBuilding	string	A unique identifier for a Building
code	string	min:1 chars A unique identifier for the Activity
capabilities	string	min:1 chars CSV list of Capabilities
coloc	string	1 to 120 chars The unique name of the colocation this activity belongs to
colocatedActivities	[string]	min:1 chars A unique identifier for the Activity
dayTemplate	string	1 to 45 chars The name of the day template for the Activity
departmentCode	string	1 to 255 chars A unique identifier for the Department of the Module of the Activity
description	undefined	Free-text description of the Activity
duration	number	The duration of the Activity as a number of Slot
events [{ Array of object:		
uniqueId	string	Unique name to identify the Activity's event
date	string	The date on which the Activity's event occurs
startTime	string	The time at which the Activity's event starts
endTime	string	The time at which the Activity's event ends
activityDurationMins	number	The duration of the Activity in minutes
week	number	The number of the week in the academic calendar counted from 1
}]		
exceptions [{ Array of object:		
}]		
fixedDay	number	A number for the day of the week
fixedRooms	string	min:1 chars CSV list of Room Codes for the Activity's Fixed Rooms
fixedTime	number	The number of Slots between midnight and the Activity's Fixed (start) Time
friendlyName	string	1 to 255 chars Free-text alternative name for the Activity
moduleCode	string	1 to 255 chars A unique identifier for the Module to which the Activity belongs
moduleAltCode	string	1 to 64 chars A unique identifier for the Module to which the Activity belongs
name	string	1 to 100 chars Free-text name for the Activity
origin	string	If the Activity is an exception, then 'origin' is the code of the parent Activity
note	string	min:1 chars Free-text note for the Activity
offerAltCode	string	1 to 255 chars A unique identifier for the ModuleOffer to which the Activity belongs
offerName	string	1 to 255 chars The name of the Module Offer to which the Activity belongs
offer { The offer object this activity belongs to		
n	string	1 to 255 chars Offer code
m	string	1 to 255 chars Module code
altc	string	1 to 255 chars Offer alt code
groups [{ Array of object:		

```

    gc      string 1 to 45 chars
                Unique code to identify the Student Group
    gn      string 1 to 255 chars
                Name for the Student Group
    goUrl   string The URL for this group-offer mapping
  }}
  tags [{
    Array of object:
    n string
  }]
}
planSize      number The planned size (i.e. number of Students) for the Activity
ready         number 1 means the activity is ready, 0 means the activity is not ready
repeats [{
  Array of object:
}]
repeatOf      string If the Activity is a repeat, then 'repeatOf' is the code of the parent Activity
repeatOrigin  string If the Activity is a repeat, then 'repeatOf' is the code of the ultimate ancestor Activity
scheduled     number Boolean flag if the Activity is scheduled for at least one week, then 1. Otherwise 0
scheduledRooms [string] 1 to 45 chars
                Unique code to identify the Room
size          number The planned or actual size (i.e. number of Students) enrolled in the Activity
staff         string min:1 chars
                CSV list of the Staff associated with the Activity
staff.json    [string] 1 to 45 chars
                Unique code to identify the Staff

staffObjects [{
  Array of object:
    c string 1 to 45 chars
                Unique code to identify the staff member
    n string 1 to 100 chars
                Name of the staff member
}]
staffPublished number between 0 and 1
                Boolean flag if the activity has been published to staff, then 1. If not published to staff, 0.
studentPublished number between 0 and 1
                Boolean flag if the activity has been published to students, then 1. If not published to staff, 0.
studentGroups  string min:1 chars
                CSV list of the Student Groups enrolled in the Activity

studentObjects [{
  Array of object:
    c string 1 to 255 chars
                Unique code to identify the student
    n string 1 to 255 chars
                Student name
}]
type          string 1 to 45 chars
                The name of the Activity type
user1         string 1 to 255 chars
                A user-defined, free-text string.
user2         string 1 to 255 chars
                A user-defined, free-text string.
user3         string 1 to 255 chars
                A user-defined, free-text string.
user4         string 1 to 255 chars
                A user-defined, free-text string.
user5         string 1 to 255 chars
                A user-defined, free-text string.

```

user6	string	1 to 255 chars	A user-defined, free-text string.
user7	string	1 to 255 chars	A user-defined, free-text string.
virtual	number	0 means the Activity is to be scheduled into a Room, 1 means the Activity is to be scheduled into a time (but not a Room)	
meetingRequired	number	0 means the Activity does not require an online meeting, 1 means the Activity requires an online meeting	
meetingUrl	string	1 to 65535 chars	The URL for the activity's online meeting
timeframe	string	1 to 110 chars	The code of the Timeframe relative to which the weeks in the weekPattern must be evaluated
weekPattern	string	1 to 90 chars	The weeks (relative to the Timeframe) into which the Activity is to be scheduled
isoweeks	string	min:6 chars	The weeks into which the Activity is to be scheduled formatted as ISO 8601
capabilities.json	[string]	1 to 100 chars	Unique name to identify the capability
fixedRooms.json	[string]	1 to 45 chars	Unique code to identify the Room
studentGroups.json	[string]	1 to 45 chars	Unique code to identify the Student Group
academics [{ Array of object:			
code	string	1 to 45 chars	Code of the Staff member
role	string	1 to 45 chars	The code of the Role performed by the Staff member for the Activity or Booking
}]			
tags	string	min:1 chars	CSV list of tag names
tags.json	[string]	1 to 255 chars	A tag name
}			

1.3 PUT /activity/{c}

Update a Activity

Update an existing Activity

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the Activity

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
name	string 1 to 100 chars	Name
du	integer >=1	Duration (as a number of slots)

NAME	TYPE	DESCRIPTION
weeks	string 1 to 90 chars	Weeks pattern e.g. '1-10,12'
offer	string 1 to 255 chars	AltCode for Offer
sc	string 1 to 5 chars	Unique code to identify the Activity Type
v	integer between 0 and 1	Flag to say whether the Activity is virtual (needs no rooms)
mr	integer between 0 and 1	Flag to say whether the Activity requires an online meeting
p1	integer between 0 and 99999	Number of students expected to take the Activity
fname	string 1 to 255 chars	Another name for the Activity
user1	string 1 to 255 chars	User-definable field 1
user2	string 1 to 255 chars	User-definable field 2
user3	string 1 to 255 chars	User-definable field 3
user4	string 1 to 255 chars	User-definable field 4
user5	string 1 to 255 chars	User-definable field 5
user6	string 1 to 255 chars	User-definable field 6
user7	string 1 to 255 chars	User-definable field 7
npStu	integer between 0 and 1	Flag to say whether student should see Activity or Exam in timetable (0) or not see Activity or Exam (1)
npStaff	integer between 0 and 1	Flag to say whether staff should see Activity or Exam in timetable (0) or not see Activity or Exam (1)
useUser2	number between 0 and 1	To be used when the User2 field code is used to identify the underlying object
schedRoom	string 0 to 45 chars	CSV list or JSON array of room codes to schedule activity into those rooms. The query parameters schedRoom, schedDay, schedHour and schedule must all be used together for scheduling to succeed

NAME	TYPE	DESCRIPTION
schedDay	string 0 to 10 chars	Short day code of day to schedule activity on. The query parameters schedRoom, schedDay, schedHour and schedule must all be used together for scheduling to succeed
schedHour	string 0 to 5 chars	Time (HH:MM) to schedule the activity at. The query parameters schedRoom, schedDay, schedHour and schedule must all be used together for scheduling to succeed
schedule	string 0 to 45 chars	Name of the schedule you want to schedule the activity into. The query parameters schedRoom, schedDay, schedHour and schedule must all be used together for scheduling to succeed
optIn	number	This flags a given Activity as being non-mandatory for its attendees.
ready	integer between 0 and 1	Change the ready status of the activity
fixedDay	integer between 0 and 6	0 means the first day of the week (usually, but not always Monday)
fixedTime	integer between 0 and 1439	Number of minutes past midnight at which the activity or exam should be scheduled
fixedRooms	string min:1 chars	CSV list (or JSON array) of code(s) of Room(s) into which the activity or exam should be scheduled
capabilities	string min:1 chars	CSV list (or JSON array) of names of Capabilities
fixedCampus	string min:1 chars	Identifying code for a campus
fixedBuilding	string min:1 chars	Identifying code for a building
tags	string min:1 chars	CSV list (or JSON array) of names of Tag(s)
sequence	number between 0 and 9999	the exam with sequence number n will always be scheduled after exams with lower sequence numbers

REQUEST BODY - application/json

```
{
  murl string 1 to 65535 chars
    An online meeting URL string for the activity. Does not need to be URL encoded
}
```

RESPONSE

STATUS CODE - 200: Success - the Activity was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code* enum ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
    Error codes:
    * `100` - Bad API key, e.g. too short or malformed
    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
    * `102` - Missing mandatory parameter
    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
    presence of another parameter
    * `104` - No database found, may occur when a given database has not been loaded onto a test server
```

- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

1.4 DELETE /activity/{c}

Delete an Activity

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the Activity

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useUser2	number between 0 and 1	To be used when the User2 field code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: Success - the Activity was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

1.5 POST /activity

Create an Activity

Create a new Activity

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*name	string 1 to 100 chars	Name
*du	integer >=1	Duration (as a number of slots)
*weeks	string 1 to 90 chars	Weeks pattern e.g. '1-10,12'
*offer	string 1 to 255 chars	AltCode for Offer
*sc	string 1 to 5 chars	Unique code to identify the Activity Type
*v	integer between 0 and 1	Flag to say whether the Activity is virtual (needs no rooms)
mr	integer between 0 and 1	Flag to say whether the Activity requires an online meeting
*pl	integer between 0 and 99999	Number of students expected to take the Activity
fname	string 1 to 255 chars	Another name for the Activity
user1	string 1 to 255 chars	User-definable field 1

NAME	TYPE	DESCRIPTION
user2	string 1 to 255 chars	User-definable field 2
user3	string 1 to 255 chars	User-definable field 3
user4	string 1 to 255 chars	User-definable field 4
user5	string 1 to 255 chars	User-definable field 5
user6	string 1 to 255 chars	User-definable field 6
user7	string 1 to 255 chars	User-definable field 7
npStu	integer between 0 and 1	Flag to say whether student should see Activity or Exam in timetable (0) or not see Activity or Exam (1)
npStaff	integer between 0 and 1	Flag to say whether staff should see Activity or Exam in timetable (0) or not see Activity or Exam (1)
schedRoom	string 0 to 45 chars	CSV list or JSON array of room codes to schedule activity into those rooms. The query parameters schedRoom, schedDay, schedHour and schedule must all be used together for scheduling to succeed
schedDay	string 0 to 10 chars	Short day code of day to schedule activity on. The query parameters schedRoom, schedDay, schedHour and schedule must all be used together for scheduling to succeed
schedHour	string 0 to 5 chars	Time (HH:MM) to schedule the activity at. The query parameters schedRoom, schedDay, schedHour and schedule must all be used together for scheduling to succeed
schedule	string 0 to 45 chars	Name of the schedule you want to schedule the activity into. The query parameters schedRoom, schedDay, schedHour and schedule must all be used together for scheduling to succeed
fixedDay	integer between 0 and 6	0 means the first day of the week (usually, but not always Monday)
fixedTime	integer between 0 and 1439	Number of minutes past midnight at which the activity or exam should be scheduled
fixedRooms	string min:1 chars	CSV list (or JSON array) of code(s) of Room(s) into which the activity or exam should be scheduled
capabilities	string min:1 chars	CSV list (or JSON array) of names of Capabilities
fixedCampus	string min:1 chars	Identifying code for a campus
fixedBuilding	string min:1 chars	Identifying code for a building
tags	string min:1 chars	CSV list (or JSON array) of names of Tag(s)

NAME	TYPE	DESCRIPTION
sequence	number between 0 and 9999	the exam with sequence number n will always be scheduled after exams with lower sequence numbers

REQUEST BODY - application/json

```
{
  mur1 string 1 to 65535 chars
    An online meeting URL string for the activity. Does not need to be URL encoded
}
```

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*          enum      ALLOWED:0
  message*       string
  newObjectCodes* [string]
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*          enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
    Error codes:
    * `100` - Bad API key, e.g. too short or malformed
    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
    * `102` - Missing mandatory parameter
    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
    presence of another parameter
    * `104` - No database found, may occur when a given database has not been loaded onto a test server
    * `105` - Internal server error, a catch-all for unexpected errors
    * `106` - No object found, i.e. the request contains a code that references no object in the database
    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
    database
    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
    the query parameters
    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
    Department(s)
    * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*          enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
    Error codes:
    * `100` - Bad API key, e.g. too short or malformed
    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
    * `102` - Missing mandatory parameter
    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
    presence of another parameter
    * `104` - No database found, may occur when a given database has not been loaded onto a test server
    * `105` - Internal server error, a catch-all for unexpected errors
    * `106` - No object found, i.e. the request contains a code that references no object in the database
    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
    database
    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
    the query parameters
    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
}
```

* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

2. ACTIVITY GROUP

2.1 GET /activitygroups

Get all Activity Groups

Return JSON array of all Activity Group objects

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Activity Group objects

RESPONSE MODEL - application/json

```
[ {  
  Array of object:  
    type      string    min:1 chars  
                  The type of Activity Group  
    name      string    min:1 chars  
                  The name of the Activity Group which represents the unique code.  
    code      string    min:1 chars  
                  A unique Activity Group code.  
    activities [string]  
  } ]
```

2.2 GET /activitygroup/{c}

Get one Activity Group

Return JSON array of one Activity Group object

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the Activity Group. This is represented by the Activity Group Name.

RESPONSE

STATUS CODE - 200: A JSON array of one Activity Group object

RESPONSE MODEL - application/json

```
{  
  type      string    min:1 chars  
                  The type of Activity Group  
  name      string    min:1 chars  
                  The name of the Activity Group which represents the unique code.  
  code      string    min:1 chars  
                  A unique Activity Group code.  
  activities [string]  
}
```

3. ACTIVITY TEMPLATES

3.1 GET /activitytemplates

Get all Activity Templates

Get the list of all Activity Templates

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Activity Template objects

RESPONSE MODEL - application/json

```
[{
  code          string  1 to 100 chars
                  A unique identifier for the Activity Template
  altCode       string  1 to 64 chars
                  A unique identifier for the Activity Template
  n             string  1 to 100 chars
                  Name
  moduleCode    string  1 to 255 chars
                  A unique identifier for the Module to which the Activity Template belongs
  activityType  string  1 to 5 chars
                  Unique code to identify the Activity Type
  hours         integer Nominal hours for the year
  planSize      integer Planned size
  user1         string  0 to 255 chars
                  User-definable field 1
  user2         string  0 to 255 chars
                  User-definable field 2
  user3         string  0 to 255 chars
                  User-definable field 1
}]
```

3.2 GET /activitytemplate/{c}

Get one Activity Template

Get the details for one Activity Templates

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 100 chars	Unique code to identify the activity template

RESPONSE

STATUS CODE - 200: A JSON array of Activity Template objects

RESPONSE MODEL - application/json

```
{
  code          string    1 to 100 chars
                  A unique identifier for the Activity Template
  altCode       string    1 to 64 chars
                  A unique identifier for the Activity Template
  n             string    1 to 100 chars
                  Name
  moduleCode    string    1 to 255 chars
                  A unique identifier for the Module to which the Activity Template belongs
  activityType  string    1 to 5 chars
                  Unique code to identify the Activity Type
  hours         integer   Nominal hours for the year
  planSize      integer   Planned size
  user1         string    0 to 255 chars
                  User-definable field 1
  user2         string    0 to 255 chars
                  User-definable field 2
  user3         string    0 to 255 chars
                  User-definable field 1
}
```

3.3 DELETE /activitytemplate/{c}

Delete an Activity Teampalte

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 100 chars	Unique code to identify the activity template

RESPONSE

STATUS CODE - 200: Success - the Activity Template was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*         enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                  Error codes:
                  * `100` - Bad API key, e.g. too short or malformed
                  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                  * `102` - Missing mandatory parameter
                  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                  presence of another parameter
                  * `104` - No database found, may occur when a given database has not been loaded onto a test server
                  * `105` - Internal server error, a catch-all for unexpected errors
                  * `106` - No object found, i.e. the request contains a code that references no object in the database
                  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                  database
                  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                  the query parameters
                  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                  Department(s)
                  * `114` - Object in use - e.g., Student groups are linked to Activities
  message*      string
}
```

```
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

4. ACTIVITY TYPE

4.1 GET /activitytypes

Get all Activity Types

Get the list of all Activity Types

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Activity Types

RESPONSE MODEL - application/json

```
[{  
  Array of object:  
    c      string 1 to 5 chars  
              Unique code to identify the Activity Type  
    n      string 1 to 45 chars  
              Name to identify the Activity Type  
    colour string A 6-character hex code for the Colour  
}]
```

4.2 GET /activitytype/{c}

Get one Activity Type

Get details for one Activity Type

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 5 chars	Unique code to identify the activity type

RESPONSE

STATUS CODE - 200: An Activity Type object

RESPONSE MODEL - application/json

```
{  
  c      string 1 to 5 chars  
              Unique code to identify the Activity Type  
  n      string 1 to 45 chars  
              Name to identify the Activity Type  
  colour string A 6-character hex code for the Colour  
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

4.3 POST /activitytype/{c}

Create an Activity Type

Create a new Activity Type

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 5 chars	Unique code to identify the activity type

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 45 chars	Name for the activity type
*colour	string 6 to 6 chars	Colour for the activity type as a hex string

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
```

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

4.4 DELETE /activitytype/{c}

Delete an Activity Type

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 5 chars	Unique code to identify the activity type

RESPONSE

STATUS CODE - 200: Success - the Activity Type was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
```


- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

5. ASSESSMENT TYPES

5.1 GET /assessmenttypes

Get all Assessment Types

Get the list of all assessment types

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of assessment types

RESPONSE MODEL - application/json

```
[ {  
  Array of object:  
    code          number  >=1  
                                Automatically generated unique code number to identify the assessment type. This property cannot be edited  
                                but is used to identify individual assessment types.  
    name           string  1 to 255 chars  
                                Name of the Assessment Type. No two assessment types can have the same name and same parent.  
    parentCode    number  >=1  
                                Automatically generated unique code number to identify the assessment type's parent. This property cannot be  
                                edited but is used to identify individual assessment types.  
    parentName    string  1 to 255 chars  
                                A unique name that identifies the parent (if any) of the Assessment Type  
  } ]
```

5.2 GET /assessmenttype/{c}

Get one Assessment Type

Get details for one assessment type

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	number >=1	Unique code to identify the assessment type.

RESPONSE

STATUS CODE - 200: An assessment type object

RESPONSE MODEL - application/json

```
{  
  code          number  >=1  
                                Automatically generated unique code number to identify the assessment type. This property cannot be edited  
                                but is used to identify individual assessment types.  
  name           string  1 to 255 chars  
                                Name of the Assessment Type. No two assessment types can have the same name and same parent.  
  parentCode    number  >=1
```

Automatically generated unique code number to identify the assessment type's parent. This property cannot be edited but is used to identify individual assessment types.

parentName string 1 to 255 chars

A unique name that identifies the parent (if any) of the Assessment Type

}

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
```

database
 * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

5.3 PUT /assessmenttype/{c}

Update an Assessment Type

Update an existing assessment type

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	number >=1	Unique code to identify the assessment type.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
newName	string 1 to 255 chars	A unique name to rename the Assessment Type to
parent	number >=1	The unique code to identify the parent of the assessment type

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
}
```

Error codes:

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)

*`114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                *`100` - Bad API key, e.g. too short or malformed
                *`101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                *`102` - Missing mandatory parameter
                *`103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                presence of another parameter
                *`104` - No database found, may occur when a given database has not been loaded onto a test server
                *`105` - Internal server error, a catch-all for unexpected errors
                *`106` - No object found, i.e. the request contains a code that references no object in the database
                *`107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                *`108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                *`109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                *`110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                *`114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                *`100` - Bad API key, e.g. too short or malformed
                *`101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                *`102` - Missing mandatory parameter
                *`103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                presence of another parameter
                *`104` - No database found, may occur when a given database has not been loaded onto a test server
                *`105` - Internal server error, a catch-all for unexpected errors
                *`106` - No object found, i.e. the request contains a code that references no object in the database
                *`107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                *`108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                *`109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                *`110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                *`114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

5.4 DELETE /assessmenttype/{c}

Delete an Assessment Type

Delete an existing assessment type

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	number ≥1	Unique code to identify the assessment type.

RESPONSE

STATUS CODE - 200: Success - the assessment type was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
              Error codes:
              * `100` - Bad API key, e.g. too short or malformed
              * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
              * `102` - Missing mandatory parameter
              * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
              presence of another parameter
              * `104` - No database found, may occur when a given database has not been loaded onto a test server
              * `105` - Internal server error, a catch-all for unexpected errors
              * `106` - No object found, i.e. the request contains a code that references no object in the database
              * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
              database
              * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
              the query parameters
              * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
              * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
              Department(s)
              * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
              Error codes:
              * `100` - Bad API key, e.g. too short or malformed
              * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
              * `102` - Missing mandatory parameter
              * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
              presence of another parameter
              * `104` - No database found, may occur when a given database has not been loaded onto a test server
              * `105` - Internal server error, a catch-all for unexpected errors
              * `106` - No object found, i.e. the request contains a code that references no object in the database
              * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
              database
              * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
              the query parameters
              * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
              * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
              Department(s)
              * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
              Error codes:
              * `100` - Bad API key, e.g. too short or malformed
              * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
              * `102` - Missing mandatory parameter
              * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
              presence of another parameter
              * `104` - No database found, may occur when a given database has not been loaded onto a test server
              * `105` - Internal server error, a catch-all for unexpected errors
              * `106` - No object found, i.e. the request contains a code that references no object in the database
              * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
              database
              * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
```

the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

5.5 POST /assessmenttype

Create an assessment type

Create a new assessment type

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*name	string 1 to 255 chars	Name of the Assessment Type. No two assessment types can have the same name and same parent.
parent	number ≥1	The unique code to identify the parent of the assessment type

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

6. ASSESSMENTPERIOD

6.1 GET /assessmentperiod/{assessmentPeriodCode}

Get one Assessment Period

Get details for the specified Assessment Period

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*assessmentPeriodCode	string 1 to 25 chars	Unique code to identify the Assessment Period

RESPONSE

STATUS CODE - 200: Details for the Assessment Period

RESPONSE MODEL - application/json

```
[{  
  Array of object:  
  code string 1 to 25 chars  
    Unique code to identify the Assessment Period  
  name string 1 to 100 chars  
    Name to describe the Assessment Period  
}]
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{  
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
    Error codes:  
    * `100` - Bad API key, e.g. too short or malformed  
    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys  
    * `102` - Missing mandatory parameter  
    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the  
    presence of another parameter  
    * `104` - No database found, may occur when a given database has not been loaded onto a test server  
    * `105` - Internal server error, a catch-all for unexpected errors  
    * `106` - No object found, i.e. the request contains a code that references no object in the database  
    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the  
    database  
    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in  
    the query parameters  
    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed  
    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant  
    Department(s)  
    * `114` - Object in use - e.g., Student groups are linked to Activities  
  message* string  
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{  
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
    Error codes:  
    * `100` - Bad API key, e.g. too short or malformed
```

- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```

    message* string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

7. BOOKING TYPE

7.1 GET /bookingtypes

Get all Booking Types

Get the list of all Booking Types

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Booking Types

RESPONSE MODEL - application/json

```
[{  
  Array of object:  
    c      string 1 to 5 chars  
              Unique code to identify the Booking Type  
    n      string 1 to 45 chars  
              Name to identify the Booking Type  
    colour string A 6-character hex code for the Colour  
    tags [{  
      Array of object:  
        n string  
      }]  
    }]  
}]
```

8. BUILDING

8.1 GET /buildings

Get all Buildings

Return JSON array of Building objects

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Building objects

RESPONSE MODEL - application/json

```
[ {  
  n      string      1 to 45 chars  
                                Name  
  code   string      1 to 45 chars  
                                Code  
  cn     string      1 to 45 chars  
                                Campus name  
  fn     [string]    min:1 chars  
}]
```

8.2 GET /building/{b}/{c}

Get one Building

Get details for one Building in the Campus

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*b	string 1 to 45 chars	Identifying name or code for a building
*c	string 1 to 45 chars	Identifying name for a campus. Can be omitted when the "queryBy" parameter is passed

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
queryBy	string	Parameter to query objects by. Can either be Name or Code. Defaults to Name

RESPONSE

STATUS CODE - 200: A Building object

RESPONSE MODEL - application/json

```
{
```

```

n      string    1 to 45 chars
                        Name
code   string    1 to 45 chars
                        Code
cn      string    1 to 45 chars
                        Campus name
fn      [string] min:1 chars
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                        Error codes:
                        * `100` - Bad API key, e.g. too short or malformed
                        * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                        * `102` - Missing mandatory parameter
                        * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                        presence of another parameter
                        * `104` - No database found, may occur when a given database has not been loaded onto a test server
                        * `105` - Internal server error, a catch-all for unexpected errors
                        * `106` - No object found, i.e. the request contains a code that references no object in the database
                        * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                        database
                        * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                        the query parameters
                        * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                        * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                        Department(s)
                        * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                        Error codes:
                        * `100` - Bad API key, e.g. too short or malformed
                        * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                        * `102` - Missing mandatory parameter
                        * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                        presence of another parameter
                        * `104` - No database found, may occur when a given database has not been loaded onto a test server
                        * `105` - Internal server error, a catch-all for unexpected errors
                        * `106` - No object found, i.e. the request contains a code that references no object in the database
                        * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                        database
                        * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                        the query parameters
                        * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                        * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                        Department(s)
                        * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                        Error codes:
                        * `100` - Bad API key, e.g. too short or malformed
                        * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                        * `102` - Missing mandatory parameter
                        * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the

```

presence of another parameter
 * `104` - No database found, may occur when a given database has not been loaded onto a test server
 * `105` - Internal server error, a catch-all for unexpected errors
 * `106` - No object found, i.e. the request contains a code that references no object in the database
 * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
 * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
    message* string
  }
```

8.3 PUT /building/{b}/{c}

Update a Building

Update an existing Building

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*b	string 1 to 45 chars	Identifying name or code for a building
*c	string 1 to 45 chars	Identifying name for a campus. Can be omitted when the "queryBy" parameter is passed

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
n	string 1 to 100 chars	New name
code	string 1 to 45 chars	New code
camp	string 1 to 45 chars	Identifying name or code for a new campus to move a building into
queryBy	string	Parameter to query objects by. Can either be Name or Code. Defaults to Name

RESPONSE

STATUS CODE - 200: Success - the Building was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
```

- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

8.4 POST /building/{b}/{c}

Create a Building

Create a new Building

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
*b	string 1 to 45 chars	Identifying name for a building
*c	string 1 to 45 chars	Identifying name or code for a campus

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*code	string 1 to 45 chars	Identifying code for a building
queryBy	string	Parameter to query objects by. Can either be Name or Code. Defaults to Name

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
```


database
 * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

8.5 DELETE /building/{b}/{c}

Delete a Building

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*b	string 1 to 45 chars	Identifying name or code for a building
*c	string 1 to 45 chars	Identifying name for a campus. Can be omitted when the "queryBy" parameter is passed

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
queryBy	string	Parameter to query objects by. Can either be Name or Code. Defaults to Name

RESPONSE

STATUS CODE - 200: Success - the Building was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

9. CAMPUS

9.1 GET /campuses

Get all Campuses

Return JSON array of Room objects

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Campus objects

RESPONSE MODEL - application/json

```
[{  
  Array of object:  
    n      string 1 to 45 chars  
           Name  
    code   string 1 to 45 chars  
           Code  
}]
```

9.2 GET /campus/{c}

Get one Campus

Get details for one Campus

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Identifying name or code for a campus

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
queryBy	string	Parameter to query objects by. Can either be Name or Code. Defaults to Name

RESPONSE

STATUS CODE - 200: A Campus object

RESPONSE MODEL - application/json

```
{  
  n      string 1 to 45 chars  
           Name  
  code   string 1 to 45 chars  
           Code  
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```
    message* string
}
```

9.3 PUT /campus/{c}

Update a Campus

Update an existing Campus

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Identifying name or code for a campus

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
n	string 1 to 45 chars	New identifying name for a campus
code	string 1 to 45 chars	New identifying code for a campus
queryBy	string	Parameter to query objects by. Can either be Name or Code. Defaults to Name

RESPONSE

STATUS CODE - 200: Success - the Campus was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
```

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

9.4 POST /campus/{c}

Create a Campus

Create a new Campus

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Identifying name for a campus

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*code	string 1 to 45 chars	Identifying code for a campus

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
```

- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

9.5 DELETE /campus/{c}

Delete a Campus

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Identifying name or code for a campus

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
queryBy	string	Parameter to query objects by. Can either be Name or Code. Defaults to Name

RESPONSE

STATUS CODE - 200: Success - the Campus was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
```


Error codes:

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

10. CAPABILITY

10.1 GET /capabilities

Get all Capabilities

Return JSON array of all Capability objects

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Capability objects

RESPONSE MODEL - application/json

```
[{
  n      string    1 to 100 chars
           Unique name to identify the capability
  type integer    between 0 and 1
           0 if the Capability applies to Activities; 1 if the Capability applies to Exams
}]
```

10.2 GET /capability/{c}

Get one Capability

Get details for one Capability

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 100 chars	Unique code to identify the capability

RESPONSE

STATUS CODE - 200: A Capability object

RESPONSE MODEL - application/json

```
{
  n      string    1 to 100 chars
           Unique name to identify the capability
  type integer    between 0 and 1
           0 if the Capability applies to Activities; 1 if the Capability applies to Exams
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*  enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
           Error codes:
```

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

10.3 POST /capability/{c}

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 100 chars	Unique code to identify the capability

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*type	integer between 0 and 1	0 if the Capability applies to Activities; 1 if it applies to Exams

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message* string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message* string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
}
```

- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

10.4 DELETE /capability/{c}

Delete a Capability

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 100 chars	Unique code to identify the capability

RESPONSE

STATUS CODE - 200: Success - the Capability was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
```

- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

11. CONTACT REQUIREMENT

11.1 GET /contactrequirements

Get all Contact Requirements

Get the list of all Contact Requirements

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Contact Requirements

RESPONSE MODEL - application/json

```
[{
  Array of object:
    c      string  1 to 100 chars
              Unique code (to identify the Contact Requirement)
    n      string  1 to 100 chars
              Name
    m      string  1 to 255 chars
              Code for the Module (to which the Contact Requirement belongs)
    sc     string  1 to 5 chars
              Code for the Activity Type
    h      number  >=0
              Number of contact hours
    staff  string  min:1 chars
              CSV list of Staff
    staff.json [string] 1 to 45 chars
              Unique code to identify the Staff
    u1      string  1 to 255 chars
              User-defined field 1
    u2      string  1 to 255 chars
              User-defined field 2
    u3      string  1 to 255 chars
              User-defined field 3
    wt      string  1 to 50 chars
              Name of the Week Template
    caps    string  min:1 chars
              CSV list of Capabilities
    caps.json [{
      Array of object:
        n      string  1 to 100 chars
                  Unique name to identify the capability
        type integer  between 0 and 1
                  0 if the Capability applies to Activities; 1 if the Capability applies to Exams
      }]
    altc    string  0 to 64 chars
              Alt Code
    ps      number  >=0
              Plan size
  }]
```

11.2 GET /contactrequirement/{c}

Get one Contact Requirement

Get details for one Contact Requirement

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 100 chars	Unique code to identify the Contact Requirement

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: A Contact Requirement object

RESPONSE MODEL - application/json

```
{
  c          string    1 to 100 chars
                Unique code (to identify the Contact Requirement)
  n          string    1 to 100 chars
                Name
  m          string    1 to 255 chars
                Code for the Module (to which the Contact Requirement belongs)
  sc         string    1 to 5 chars
                Code for the Activity Type
  h          number    >=0
                Number of contact hours
  staff      string    min:1 chars
                CSV list of Staff
  staff.json [string]  1 to 45 chars
                Unique code to identify the Staff
  u1         string    1 to 255 chars
                User-defined field 1
  u2         string    1 to 255 chars
                User-defined field 2
  u3         string    1 to 255 chars
                User-defined field 3
  wt         string    1 to 50 chars
                Name of the Week Template
  caps       string    min:1 chars
                CSV list of Capabilities
  caps.json [{
    Array of object:
      n      string    1 to 100 chars
                Unique name to identify the capability
      type   integer    between 0 and 1
                0 if the Capability applies to Activities; 1 if the Capability applies to Exams
  }]
  altc      string    0 to 64 chars
```


		Alt Code
ps	number	>=0
		Plan size

```

}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
}
```

- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

11.3 PUT /contactrequirement/{c}

Update a Contact Requirement

Update an existing Contact Requirement

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 100 chars	Unique code to identify the Contact Requirement

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltc	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
n	string 1 to 100 chars	Name
cq	string 1 to 50 chars	Unique code to identify the module
sc	string 1 to 5 chars	Unique code to identify the Activity Type
h	integer	Number of hours (in units of Slots)
u1	string 1 to 255 chars	User-definable field 1
u2	string 1 to 255 chars	User-definable field 2
u3	string 1 to 255 chars	User-definable field 3
caps	string	CSV list (or JSON array) of names of Capabilities
staff	string	CSV list (or JSON array) of codes of Staff
wt	string 1 to 50 chars	Name of the Week Template
altc	string 1 to 64 chars	Unique alternative code to identify the Contact Requirement
useModuleAltc	number between 0 and 1	To be used when the alternative code is used to identify the Module
ps	integer	Plan size
newCode	string 1 to 100 chars	New code for the Contact Requirement

RESPONSE

STATUS CODE - 200: Success - the Contact Requirement was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant

```

Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

11.4 POST /contactrequirement/{c}

Create a Contact Requirement

Create a new Contact Requirement

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 100 chars	Unique code to identify the Contact Requirement

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 100 chars	Name
*cq	string 1 to 50 chars	Unique code to identify the module
*sc	string 1 to 5 chars	Unique code to identify the Activity Type
h	integer	Number of hours (in units of Slots)
u1	string 1 to 255 chars	User-definable field 1
u2	string 1 to 255 chars	User-definable field 2
u3	string 1 to 255 chars	User-definable field 3
caps	string	CSV list (or JSON array) of names of Capabilities
staff	string	CSV list (or JSON array) of codes of Staff
wt	string 1 to 50 chars	Name of the Week Template
altc	string 1 to 64 chars	Unique alternative code to identify the Contact Requirement
useModuleAltC	number between 0 and 1	To be used when the alternative code is used to identify the Module
ps	integer	Plan size

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*   enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```
    message* string
}
```

11.5 DELETE /contactrequirement/{c}

Delete a Contact Requirement

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 100 chars	Unique code to identify the Contact Requirement

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAlt	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: Success - the Contact Requirement was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
}
```

- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

12. COURSE

12.1 GET /courses

Get all Courses

Return JSON array of all Courses

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useOfferAlt	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer

RESPONSE

STATUS CODE - 200: A JSON array of Course objects

RESPONSE MODEL - application/json

```
[{
```

Array of object:

cc	string	1 to 45 chars Course Code
n	string	1 to 180 chars Course Name
dn	string	1 to 90 chars The name of the department that owns the course
dc	string	1 to 90 chars The code of the department that owns the course
level	string	0 to 45 chars can be used for years or BA, MA etc.
owner	string	0 to 45 chars Staff code for the course owner
minc	integer	between 0 and 9999 Minimum credits for the year
maxc	integer	between 0 and 9999 Maximum credits for the year
events	integer	between 0 and 0 Total number of events in course (currently always 0)
scheduledEvents	integer	between 0 and 0 Total number of scheduled events (currently always 0)
moCodes	string	min:1 chars CSV list of module offer codes in the course. If 'useOfferAlt' is used the module offer alt codes are shown instead.
moCore	string	min:1 chars CSV list of Core module offer codes in the course
moCore.json	[string]	1 to 255 chars The offer name
moOptional	string	min:1 chars CSV list of Optional module offer codes in the course
moOptional.json	[string]	1 to 255 chars The offer name

```
offers [{
```

Array of object:

The Offer name (present if userOfferAlt is not set)


```

    n    string
    m    string  The module code (present if userOfferAltC is not set)
    altc string  The Alt Code for the Offer (present if userOfferAltC is set)
  }]
  altc      string    0 to 64 chars
                Alt Code
  user1     string    0 to 256 chars
                User-definable field 1
  user2     string    0 to 256 chars
                User-definable field 2
  showCourse integer  Flag controlling whether students can see the entire course in the student portal
  tags [{
    Array of object:
      n string
    }]
  desc      string    1 to 255 chars
                Course Description
  td        number    between 0 and 1
                To be used and set to 1 when the Course is to be marked for deletion
}]

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities
}

```

```

    message* string
  }

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

12.2 GET /course/{cc}

Get one Course

Return object of Course details.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*cc	string 1 to 45 chars	Unique code to identify Courses

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
useOfferAltC	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer

RESPONSE

STATUS CODE - 200: A Course object

RESPONSE MODEL - application/json

```

{
  cc          string      1 to 45 chars
                                Course Code
  n           string      1 to 180 chars
                                Course Name
  dn          string      1 to 90 chars

```

dc	string	The name of the department that owns the course 1 to 90 chars
level	string	The code of the department that owns the course 0 to 45 chars
owner	string	can be used for years or BA, MA etc. 0 to 45 chars
minc	integer	Staff code for the course owner between 0 and 9999
maxc	integer	Minimum credits for the year between 0 and 9999
events	integer	Maximum credits for the year between 0 and 0
scheduledEvents	integer	Total number of events in course (currently always 0) between 0 and 0
moCodes	string	Total number of scheduled events (currently always 0) min:1 chars
moCore	string	CSV list of module offer codes in the course. If 'useOfferAltC' is used the module offer alt codes are shown instead. min:1 chars
moCore.json	[string]	CSV list of Core module offer codes in the course 1 to 255 chars
moOptional	string	The offer name min:1 chars
moOptional.json	[string]	CSV list of Optional module offer codes in the course 1 to 255 chars
offers [{		The offer name
Array of object:		
n	string	The Offer name (present if userOfferAltC is not set)
m	string	The module code (present if userOfferAltC is not set)
altc	string	The Alt Code for the Offer (present if userOfferAltC is set)
}]		
altc	string	0 to 64 chars Alt Code
user1	string	0 to 256 chars User-definable field 1
user2	string	0 to 256 chars User-definable field 2
showCourse	integer	Flag controlling whether students can see the entire course in the student portal
tags [{		
Array of object:		
n	string	
}]		
desc	string	1 to 255 chars Course Description
td	number	between 0 and 1 To be used and set to 1 when the Course is to be marked for deletion

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
}
```

- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

12.3 PUT /course/{cc}

Update a Course

Update an existing Course

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*cc	string 1 to 45 chars	Unique code to identify Courses

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
n	string 1 to 100 chars	Full name
dc	string 1 to 255 chars	Department Code
level	string 0 to 45 chars	course level e.g. BA1 or MA
s	string 0 to 45 chars	The code of the staff owner
minc	integer	The minimum credits for a course
maxc	integer	The maximum credits for a course
moCore	string	CSV list (or JSON array) of core module offers (or core modules if useModules is set to 1)
moOption	string	CSV list (or JSON array) of optional module offers (or optional modules if useModules is set to 1)
user1	string 0 to 256 chars	User-definable field 1
user2	string 0 to 60 chars	User-definable field 2
useAltc	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
altc	string 1 to 64 chars	Unique alternative code to identify the course
cq	string 1 to 45 chars	Unique code to identify the course
shall	integer between 0 and 1	Show Full Course flag
useModules	number between 0 and 1	To be used and set to 1 when the moCoreParam and moOptionParam list Modules (instead of Offers)
td	number between 0 and 1	To be used and set to 1 when the object is to be marked for deletion
desc	string 1 to 255 chars	Course Description
ps	integer between 0 and 999	Planned Size

RESPONSE

STATUS CODE - 200: Success - the Course was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

12.4 POST /course/{cc}

Create a new Course

Create Course with parameters in the query.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*cc	string 1 to 45 chars	Unique code to identify Courses

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 100 chars	Full name
*dc	string 1 to 255 chars	Department Code
level	string 0 to 45 chars	course level e.g. BA1 or MA
s	string 0 to 45 chars	The code of the staff owner
minc	integer	The minimum credits for a course
maxc	integer	The maximum credits for a course
moCore	string	CSV list (or JSON array) of core module offers (or core modules if useModules is set to 1)
moOption	string	CSV list (or JSON array) of optional module offers (or optional modules if useModules is set to 1)
user1	string 0 to 256 chars	User-definable field 1
user2	string 0 to 60 chars	User-definable field 2
altc	string 1 to 64 chars	Unique alternative code to identify the course
shall	integer between 0 and 1	Show Full Course flag
useModules	number between 0 and 1	To be used and set to 1 when the moCoreParam and moOptionParam list Modules (instead of Offers)
createGroup	number between 0 and 1	Set to 0 to prevent creation of Student Group for Course.
td	number between 0 and 1	To be used and set to 1 when the object is to be marked for deletion
desc	string 1 to 255 chars	Course Description
ps	integer between 0 and 999	Planned Size
tags	string 1 to 255 chars	Comma separated list of public tags to add to the newly created course.

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
```


- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

12.5 DELETE /course/{cc}

Delete a Course

Deletes a course and all maps related to the course

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*cc	string 1 to 45 chars	Unique code to identify Courses

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: Success - the Course was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

12.6 POST /course/{cc}/offer/{o}

Add one Course-Offer mapping

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*cc	string 1 to 45 chars	Unique code to identify Courses
*o	string 1 to 255 chars	Name to identify the Offer

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Module
optional	integer	A 1 or 0 flag to determine if offer is optional or not.
core	integer	A 1 or 0 flag to determine if offer is core or not.

RESPONSE

STATUS CODE - 200: Course-Offer mapping added successfully

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
```

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```

    message* string
  }

```

12.7 DELETE /course/{cc}/offer/{o}

Delete one Course-Offer mapping

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*cc	string 1 to 45 chars	Unique code to identify Courses
*o	string 1 to 255 chars	Name to identify the Offer

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Module

RESPONSE

STATUS CODE - 200: Success - all the Course-Offer mapping was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

```

```
    message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

12.8 GET /courses/offers

Get all Course-Offer mappings

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A Course-Offer mapping object

RESPONSE MODEL - application/json

```
{
  a list of all course-offer mappings
}
```

Core	number	between 0 and 1	Core offer mapping flag
Optional	number	between 0 and 1	Optional offer mapping flag
cc	string	1 to 45 chars	Course code
o	string	1 to 255 chars	Name of the Module Offer
offerAltCode	string	1 to 255 chars	Alt Code of the Module Offer
mc	string	1 to 255 chars	Code for the Module

```

}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{

```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

12.9 DELETE /courses/offers

Delete all Course-Offer mappings

Delete all Course-Offer mappings (use with caution!)

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Success - all the Course-Offer mappings were deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter

```

- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

12.10 GET /course/{cc}/offerBlocks

Get all Offer-Block mappings

Returns an array of objects, where each object represents a Block between two Offers

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*cc	string 1 to 45 chars	Unique code to identify Courses

RESPONSE

STATUS CODE - 200: An array of objects, where each object represents a Block between two Offers

RESPONSE MODEL - application/json

```
[{
  Array of object:
  offer1 {
    altc    string 1 to 255 chars
            The Alt Code of the Module Offer
    name    string 1 to 255 chars
```



```

    module string 1 to 255 chars
    }
    offer2 {
      altc string 1 to 255 chars
      name string 1 to 255 chars
      module string 1 to 255 chars
    }
  }
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code* enum ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message* string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code* enum ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message* string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{

```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

12.11 POST /course/{cc}/offerBlocks

Create new Offer-Block mappings

Create new Offer Block mappings specified by pairs of Offer Codes

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*cc	string 1 to 45 chars	Unique code to identify Courses

REQUEST BODY - application/json

```

[ {
  altc1 string 1 to 255 chars
    The Alt Code of the first Offer. This Offer blocks the second Offer.
  altc2 string 1 to 255 chars
    The Alt Code of the second Offer, that is blocked by the first Offer.
} ]

```

RESPONSE

STATUS CODE - 200: Success - Offer Blocks successfully added

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters

```

- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

12.12 DELETE /course/{cc}/offerBlocks

Delete Offer-Block mappings

Delete Offer Block mappings specified by pairs of Offer Codes

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
*cc	string 1 to 45 chars	Unique code to identify Courses

REQUEST BODY - application/json

```
[{
  Array of object:
    altc1 string 1 to 255 chars
              The Alt Code of the first Offer. This Offer blocks the second Offer.
    altc2 string 1 to 255 chars
              The Alt Code of the second Offer, that is blocked by the first Offer.
}]
```

RESPONSE

STATUS CODE - 200: Success - Offer Blocks successfully deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
              Error codes:
              * `100` - Bad API key, e.g. too short or malformed
              * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
              * `102` - Missing mandatory parameter
              * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
              presence of another parameter
              * `104` - No database found, may occur when a given database has not been loaded onto a test server
              * `105` - Internal server error, a catch-all for unexpected errors
              * `106` - No object found, i.e. the request contains a code that references no object in the database
              * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
              database
              * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
              the query parameters
              * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
              * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
              Department(s)
              * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
              Error codes:
              * `100` - Bad API key, e.g. too short or malformed
              * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
              * `102` - Missing mandatory parameter
              * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
              presence of another parameter
              * `104` - No database found, may occur when a given database has not been loaded onto a test server
              * `105` - Internal server error, a catch-all for unexpected errors
              * `106` - No object found, i.e. the request contains a code that references no object in the database
              * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
              database
              * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
              the query parameters
              * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
              * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
              Department(s)
              * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

13. DATABASE

13.1 GET /database

Get the database

Get details for the database

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Details for the database

RESPONSE MODEL - application/json

```
[ {  
  Array of object:  
    Name                string    1 to 45 chars  
                        Database name  
    BackupsEnabled       boolean   True if the database is configured for backups  
    BackupIntervalInMinutes integer  >=1  
    LastBackupTimeUtc    string    The date and time at which the last backup was done in ISO 8601 format  
    Statistics {  
      Various statistics grouped by Department  
    }  
  }  
]
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{  
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
            Error codes:  
            * `100` - Bad API key, e.g. too short or malformed  
            * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys  
            * `102` - Missing mandatory parameter  
            * `103` - Missing optional parameter, used when the presence of one parameter is required because of the  
            presence of another parameter  
            * `104` - No database found, may occur when a given database has not been loaded onto a test server  
            * `105` - Internal server error, a catch-all for unexpected errors  
            * `106` - No object found, i.e. the request contains a code that references no object in the database  
            * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the  
            database  
            * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in  
            the query parameters  
            * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed  
            * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant  
            Department(s)  
            * `114` - Object in use - e.g., Student groups are linked to Activities  
  message* string  
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{  
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
            Error codes:  
            * `100` - Bad API key, e.g. too short or malformed  
            * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys  
            * `102` - Missing mandatory parameter
```

- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

14. DEPARTMENT

14.1 GET /departments

Get all Departments

Get the list of all Departments

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Departments

RESPONSE MODEL - application/json

```
[{
  Array of object:
    c string 1 to 255 chars
      Unique code to identify the Department or OU
    n string 1 to 255 chars
      Unique name to identify the Department
    d string 1 to 65535 chars
      Description for the Department
    p string 1 to 255 chars
      Unique code to identify the parent Department or OU
    tags [{
      Array of object:
        n string
      }]
}]
```

14.2 GET /department/{c}

Get one Department

Get details for one Department

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Department Code

RESPONSE

STATUS CODE - 200: A Department object

RESPONSE MODEL - application/json

```
{
  c string 1 to 255 chars
    Unique code to identify the Department or OU
  n string 1 to 255 chars
    Unique name to identify the Department
```



```

d string 1 to 65535 chars
    Description for the Department
p string 1 to 255 chars
    Unique code to identify the parent Department or OU
tags [{
    Array of object:
        n string
    }]
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
    Error codes:
    * `100` - Bad API key, e.g. too short or malformed
    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
    * `102` - Missing mandatory parameter
    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
    presence of another parameter
    * `104` - No database found, may occur when a given database has not been loaded onto a test server
    * `105` - Internal server error, a catch-all for unexpected errors
    * `106` - No object found, i.e. the request contains a code that references no object in the database
    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
    database
    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
    the query parameters
    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
    Department(s)
    * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
    Error codes:
    * `100` - Bad API key, e.g. too short or malformed
    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
    * `102` - Missing mandatory parameter
    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
    presence of another parameter
    * `104` - No database found, may occur when a given database has not been loaded onto a test server
    * `105` - Internal server error, a catch-all for unexpected errors
    * `106` - No object found, i.e. the request contains a code that references no object in the database
    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
    database
    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
    the query parameters
    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
    Department(s)
    * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
    Error codes:
    * `100` - Bad API key, e.g. too short or malformed
    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
    * `102` - Missing mandatory parameter

```

- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

14.3 PUT /department/{c}

Update a Department

Update an existing Department

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Department Code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
n	string 1 to 255 chars	Department Name
desc	string 1 to 65535 chars	Department Description
p	string 1 to 255 chars	Code for parent Department or OU

RESPONSE

STATUS CODE - 200: Success - the Department was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
```

Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

14.4 POST /department/{c}

Create a new Department

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Department Code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 255 chars	Department Name
desc	string 1 to 65535 chars	Department Description
p	string 1 to 255 chars	Code for parent Department or OU

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
}
```

* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

14.5 DELETE /department/{c}

Delete aDepartment

Delete an existing Department

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Department Code

RESPONSE

STATUS CODE - 200: Success - the Department was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
  message* string
}
```

Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

14.6 GET /department

Get all Departments [deprecated]

Get the list of all Departments (deprecated, use /departments instead)

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Departments

RESPONSE MODEL - application/json

```
[{  
  Array of object:  
    c string 1 to 255 chars  
      Unique code to identify the Department or OU  
    n string 1 to 255 chars  
      Unique name to identify the Department  
    d string 1 to 65535 chars  
      Description for the Department  
    p string 1 to 255 chars  
      Unique code to identify the parent Department or OU  
    tags [{  
      Array of object:  
        n string  
      }]  
    }]  
}]
```

15. EXAMS

15.1 GET /classicexams

Get the list of all Classic Exams

Return JSON array of Classic Exams

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*assessmentPeriodCode	string 1 to 25 chars	Unique code to identify the Assessment Period
useOfferAltCode	number between 0 and 1	1 means that the Module Offers in the response are identified by their Alt Codes. Otherwise the Module Offers are identified by their names.

RESPONSE

STATUS CODE - 200: A JSON array of Classic Exam objects

RESPONSE MODEL - application/json

```
[{
```

Array of object:

assessmentPeriod	string	1 to 25 chars Code of the Assessment Period to which the Assessment belongs
assessmentType	string	1 to 255 chars Optional user-defined name for the type of the assessment
building	string	1 to 45 chars If the exam must be scheduled into a specific building, then this field is the code of that building
campus	string	1 to 45 chars If the exam must be scheduled into a specific campus, then this field is the code of that campus
canCreateSessions	integer	between 0 and 1 0 means that the automatic Exam scheduler must use existing Exam Sessions, otherwise it is allowed to create new Exam Sessions
capabilities	string	List of room capabilities required by the exam
code	string	1 to 255 chars A code to identify one classic exams from amongst all the classic exams
complexity	integer	A calculated value representing how hard the exam is to scheduled (higher numbers are harder to schedule)
dayTemplate	string	1 to 45 chars The name of the day template for the exam
description	string	1 to 255 chars A description of the exam
durationMins	integer	Duration of the exam in minutes
endDate	string	19 to 19 chars The latest date on which the scheduler should put the exam
exclusiveStaff	integer	between 0 and 1 1 if the academic staff associated with this exam cannot supervise any other exam concurrently with this exam, otherwise 0
fixedDay	number	A number for the day of the week
fixedTime	number	The time at which the exam should start, as a number of minutes past midnight

friendlyName	string	1 to 255 chars	Free-text alternative name for the exam
layoutType	string	1 to 30 chars	Optional code for the type of Room Layout wanted for the Exam
maxPerInvigilator	number		The maximum number of candidates that an invigilator should have to supervise for this exam
minRoomSize	number		If the exam is split over multiple rooms, then each room should not be smaller than this value
name	string	1 to 255 chars	The name for the exam
noPublishStaff	integer	between 0 and 1	Flag to say whether staff should see the Exam in their timetable (0) or (1)
noPublishStudents	integer	between 0 and 1	Flag to say whether students should see the Exam in their timetable (0) or (1)
notes	string	1 to 1000 chars	Free-text field
offer	string	1 to 511 chars	The code of the Module and the name of the Offer that the exam belongs to (with a space to separate them)
personalDeadlineEnabled	integer	between 0 and 1	Flag to say whether students can have a personal deadline
planSize	number		The planned size for the exam
preferredStart	string	1 to 100 chars	The name of the Preferred Start Slots pattern that the automatic scheduler must use
ready	integer	between 0 and 1	Flag to say whether the Exam is ready
roomPool	string	1 to 65 chars	The name of the Room Pool that the automatic scheduler must use
sequence	number		When provided, the automatic scheduler must schedule exams with higher sequence numbers after exams with lower sequence numbers
setupTimeMins	number		When provided, the automatic scheduler must allow additional time at the start of the exam session for setup
sharing	integer	between 0 and 1	Flag to say whether the automatic scheduler can schedule this exam in the same exam session as other exams
slotGroup	string	1 to 255 chars	An option Slot Group name. The automatic scheduler must start all exams in the same Slot Group at the same time.
splittable	integer	between 0 and 1	Flag to say whether the automatic scheduler can split this exam over multiple rooms
staff	[string]	1 to 45 chars	Unique code to identify the Staff
startDate	string	19 to 19 chars	The earliest date on which the scheduler should put the exam
students	[string]	1 to 60 chars	Unique code to identify the student
takedownTimeMins	number		When provided, the automatic scheduler must allow additional time at the end of the exam session for takedown
usePlanSize	integer	between 0 and 1	Flag to say whether the automatic scheduler should use the Plan Size or the actual size (number of students) of the exam
user1	string	1 to 256 chars	User-defined field
user2	string	1 to 256 chars	User-defined field
user3	string	1 to 256 chars	User-defined field
skipStudentClashes	integer	between 0 and 1	Skip student clashes checks when auto-scheduling the exam. Does not skip student clash checks when manually moving the exam

}]

15.2 GET /classicexam/{c}

Get one Classic Exam

Get details for one Classic Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Exam

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useOfferAltCode	number between 0 and 1	1 means that the Module Offers in the response are identified by their Alt Codes. Otherwise the Module Offers are identified by their names.

RESPONSE

STATUS CODE - 200: A Classic Exam object

RESPONSE MODEL - application/json

{		
assessmentPeriod	string	1 to 25 chars Code of the Assessment Period to which the Assessment belongs
assessmentType	string	1 to 255 chars Optional user-defined name for the type of the assessment
building	string	1 to 45 chars If the exam must be scheduled into a specific building, then this field is the code of that building
campus	string	1 to 45 chars If the exam must be scheduled into a specific campus, then this field is the code of that campus
canCreateSessions	integer	between 0 and 1 0 means that the automatic Exam scheduler must use existing Exam Sessions, otherwise it is allowed to create new Exam Sessions
capabilities	string	List of room capabilities required by the exam
code	string	1 to 255 chars A code to identify one classic exam from amongst all the classic exams
complexity	integer	A calculated value representing how hard the exam is to schedule (higher numbers are harder to schedule)
dayTemplate	string	1 to 45 chars The name of the day template for the exam
description	string	1 to 255 chars A description of the exam
durationMins	integer	Duration of the exam in minutes
endDate	string	19 to 19 chars The latest date on which the scheduler should put the exam
exclusiveStaff	integer	between 0 and 1 1 if the academic staff associated with this exam cannot supervise any other exam concurrently with this exam, otherwise 0
fixedDay	number	A number for the day of the week
fixedTime	number	The time at which the exam should start, as a number of minutes past midnight
friendlyName	string	1 to 255 chars Free-text alternative name for the exam
layoutType	string	1 to 30 chars

maxPerInvigilator	number	Optional code for the type of Room Layout wanted for the Exam The maximum number of candidates that an invigilator should have to supervise for this exam
minRoomSize	number	If the exam is split over multiple rooms, then each room should not be smaller than this value
name	string	1 to 255 chars The name for the exam
noPublishStaff	integer	between 0 and 1 Flag to say whether staff should see the Exam in their timetable (0) or (1)
noPublishStudents	integer	between 0 and 1 Flag to say whether students should see the Exam in their timetable (0) or (1)
notes	string	1 to 1000 chars Free-text field
offer	string	1 to 511 chars The code of the Module and the name of the Offer that the exam belongs to (with a space to separate them)
personalDeadlineEnabled	integer	between 0 and 1 Flag to say whether students can have a personal deadline
planSize	number	The planned size for the exam
preferredStart	string	1 to 100 chars The name of the Preferred Start Slots pattern that the automatic scheduler must use
ready	integer	between 0 and 1 Flag to say whether the Exam is ready
roomPool	string	1 to 65 chars The name of the Room Pool that the automatic scheduler must use
sequence	number	When provided, the automatic scheduler must schedule exams with higher sequence numbers after exams with lower sequence numbers
setupTimeMins	number	When provided, the automatic scheduler must allow additional time at the start of the exam session for setup
sharing	integer	between 0 and 1 Flag to say whether the automatic scheduler can schedule this exam in the same exam session as other exams
slotGroup	string	1 to 255 chars An option Slot Group name. The automatic scheduler must start all exams in the same Slot Group at the same time.
splittable	integer	between 0 and 1 Flag to say whether the automatic scheduler can split this exam over multiple rooms
staff	[string]	1 to 45 chars Unique code to identify the Staff
startDate	string	19 to 19 chars The earliest date on which the scheduler should put the exam
students	[string]	1 to 60 chars Unique code to identify the student
takedownTimeMins	number	When provided, the automatic scheduler must allow additional time at the end of the exam session for takedown
usePlanSize	integer	between 0 and 1 Flag to say whether the automatic scheduler should use the Plan Size or the actual size (number of students) of the exam
user1	string	1 to 256 chars User-defined field
user2	string	1 to 256 chars User-defined field
user3	string	1 to 256 chars User-defined field
skipStudentClashes	integer	between 0 and 1 Skip student clashes checks when auto-scheduling the exam. Does not skip student clash checks when manually moving the exam
}		

15.3 PUT /classicexam/{c}

Update a Classic Exam

Update an existing Classic Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Exam code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
capabilities	string min:1 chars	CSV list (or JSON array) of names of Capabilities
assessmentPeriodCode	string 1 to 25 chars	Unique code to identify the Assessment Period
assessmentType	string 1 to 255 chars	Unique name to identify the Assessment Type
building	string 1 to 45 chars	Identifying code for a building
campus	string 1 to 45 chars	Identifying code for a campus
classicColocations	string min:1 chars	CSV list (or JSON array) of code(s) of classic exam(s) with which this exam should be colocated
classicPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of classic exam(s) after which this exam must be scheduled
complexity	integer ≥0	a numeric indication of how hard the exam is to schedule where low numbers mean easy and higher numbers mean harder
dayTemplate	string 1 to 45 chars	Day Template Name
description	string 1 to 255 chars	a description of the exam
durationMinutes	number ≥1	The length of the Exam in minutes
endDate	string 10 to 10 chars	End date in YYYY-MM-DD format (UTC timezone assumed)
friendlyName	string 1 to 255 chars	Another name for the Exam
name	string 1 to 255 chars	Name for the Exam
exclusiveStaff	integer between 0 and 1	a flag to say whether the academic staff responsible for the exam content can be responsible for one exam only at a time
fixedDay	integer between 0 and 6	0 means the first day of the week (usually, but not always Monday)
fixedRooms	string min:1 chars	CSV list (or JSON array) of code(s) of Room(s) into which the activity or exam should be scheduled
fixedTime	integer between 0 and 1439	Number of minutes past midnight at which the activity or exam should be scheduled

NAME	TYPE	DESCRIPTION
layoutType	string 1 to 30 chars	Identifying code for a Layout Type
maxPerInvigilator	integer between 0 and 9999	a maximum number of students that a single invigilator can manage
minRoomSize	integer between 0 and 9999	when the exam must be split across rooms, every room must be of at least this size
module	string 1 to 255 chars	Unique code to identify the module. Required if parameter "offer" is used and "useAltc" is false
noPublishStaff	integer between 0 and 1	a flag to say whether this exam should be shown in the Staff Portal
noPublishStudents	integer between 0 and 1	a flag to say whether this exam should be shown in the Students Portal
notes	string min:1 chars	Free-text notes
offer	string 1 to 255 chars	If param 'useAltc' is sent and has the value '1' then param 'offer' is the name of the offer. Otherwise 'offer' is the Alt Code of the offer.
personalDeadlineEnabled	integer between 0 and 1	a flag to say whether each student in the exam can have their own personal deadline
planSize	integer between 0 and 9999	the planned (expected) size for the exam
preferredStart	string 1 to 100 chars	The name of a Start Slots pattern
ready	integer between 0 and 1	flag to show whether the exam is ready or not
roomPool	string min:1 chars	CSV list (or JSON array) of name(s) of Room Pool(s) into which the exam should be scheduled
sequence	number between 0 and 9999	the exam with sequence number n will always be scheduled after exams with lower sequence numbers
serialPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of serial exam(s) after which this exam must be schedule
setupTimeMins	integer between 0 and 9999	0 if there if the exam requires no setup, otherwise the number of minutes of setup time required
sharing	integer between 0 and 1	1 if there if the exam can share a session with other exams, otherwise 0
slotGroup	string	a user-defined string that is shared between two (or more) exams to ensure they are scheduled at the same time
splittable	integer between 0 and 1	1 if there if the scheduler is allowed to split the exam over several rooms, 0 otherwise
staff	string	CSV list (or JSON array) of codes of Staff
startDate	string 10 to 10 chars	Start date in YYYY-MM-DD format (UTC timezone assumed)

NAME	TYPE	DESCRIPTION
takedownTimeMins	integer between 0 and 9999	0 if there if the exam requires no takedown, otherwise the number of minutes of takedown time required
takehomePredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of takehome exam(s) after which this exam must be schedule
useOfferAltc	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer
usePlanSize	integer between 0 and 1	1 if the scheduler is to schedule based on the planned size of the exam, 0 if based on the actual number of students
user1	string 1 to 256 chars	User-definable field 1
user2	string 1 to 256 chars	User-definable field 2
user3	string 1 to 256 chars	User-definable field 3
skipStudentClashes	integer between 0 and 1	Skip student clashes checks when auto-scheduling the exam. Does not skip student clash checks when manually moving the exam

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message*   string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                    Error codes:
                    * `100` - Bad API key, e.g. too short or malformed
                    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                    * `102` - Missing mandatory parameter
                    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                    presence of another parameter
                    * `104` - No database found, may occur when a given database has not been loaded onto a test server
                    * `105` - Internal server error, a catch-all for unexpected errors
                    * `106` - No object found, i.e. the request contains a code that references no object in the database
                    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                    database
                    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                    the query parameters
                    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                    Department(s)
                    * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                    Error codes:
                    * `100` - Bad API key, e.g. too short or malformed
                    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                    * `102` - Missing mandatory parameter
                    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                    presence of another parameter
                    * `104` - No database found, may occur when a given database has not been loaded onto a test server
                    * `105` - Internal server error, a catch-all for unexpected errors
                    * `106` - No object found, i.e. the request contains a code that references no object in the database
                    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                    database
                    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                    the query parameters
                    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                    Department(s)
                    * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

15.4 POST /classicexam/{c}

Create a Classic Exam

Create a new Classic Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Exam code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
capabilities	string min:1 chars	CSV list (or JSON array) of names of Capabilities

NAME	TYPE	DESCRIPTION
*assessmentPeriodCode	string 1 to 25 chars	Unique code to identify the Assessment Period
assessmentType	string 1 to 255 chars	Unique name to identify the Assessment Type
building	string 1 to 45 chars	Identifying code for a building
campus	string 1 to 45 chars	Identifying code for a campus
canCreateSessions	number between 0 and 1	1 means that the automatic Exam scheduler is allowed to create new Exam Sessions, otherwise the scheduler must use existing Exam Sessions
classicColocations	string min:1 chars	CSV list (or JSON array) of code(s) of classic exam(s) with which this exam should be colocated
classicPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of classic exam(s) after which this exam must be scheduled
complexity	integer ≥0	a numeric indication of how hard the exam is to schedule where low numbers mean easy and higher numbers mean harder
dayTemplate	string 1 to 45 chars	Day Template Name
description	string 1 to 255 chars	a description of the exam
*durationMinutes	number ≥1	The length of the Exam in minutes
endDate	string 10 to 10 chars	End date in YYYY-MM-DD format (UTC timezone assumed)
friendlyName	string 1 to 255 chars	Another name for the Exam
*name	string 1 to 255 chars	Name for the Exam
exclusiveStaff	integer between 0 and 1	a flag to say whether the academic staff responsible for the exam content can be responsible for one exam only at a time
fixedDay	integer between 0 and 6	0 means the first day of the week (usually, but not always Monday)
fixedRooms	string min:1 chars	CSV list (or JSON array) of code(s) of Room(s) into which the activity or exam should be scheduled
fixedTime	integer between 0 and 1439	Number of minutes past midnight at which the activity or exam should be scheduled
maxPerInvigilator	integer between 0 and 9999	a maximum number of students that a single invigilator can manage
minRoomSize	integer between 0 and 9999	when the exam must be split across rooms, every room must be of at least this size

NAME	TYPE	DESCRIPTION
module	string 1 to 255 chars	Unique code to identify the module. Required if parameter "offer" is used and "useAltC" is false
noPublishStaff	integer between 0 and 1	a flag to say whether this exam should be shown in the Staff Portal
noPublishStudents	integer between 0 and 1	a flag to say whether this exam should be shown in the Students Portal
notes	string min:1 chars	Free-text notes
*offer	string 1 to 255 chars	If param 'useAltC' is sent and has the value '1' then param 'offer' is the Alt Code of the offer. Otherwise 'offer' is the name of the offer.
personalDeadlineEnabled	integer between 0 and 1	a flag to say whether each student in the exam can have their own personal deadline
planSize	integer between 0 and 9999	the planned (expected) size for the exam
preferredStart	string 1 to 100 chars	The name of a Start Slots pattern
ready	integer between 0 and 1	flag to show whether the exam is ready or not
roomPool	string min:1 chars	CSV list (or JSON array) of name(s) of Room Pool(s) into which the exam should be scheduled
sequence	number between 0 and 9999	the exam with sequence number n will always be scheduled after exams with lower sequence numbers
serialPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of serial exam(s) after which this exam must be schedule
setupTimeMins	integer between 0 and 9999	0 if there if the exam requires no setup, otherwise the number of minutes of setup time required
sharing	integer between 0 and 1	1 if there if the exam can share a session with other exams, otherwise 0
slotGroup	string	a user-defined string that is shared between two (or more) exams to ensure they are scheduled at the same time
splittable	integer between 0 and 1	1 if there if the scheduler is allowed to split the exam over several rooms, 0 otherwise
staff	string	CSV list (or JSON array) of codes of Staff
startDate	string 10 to 10 chars	Start date in YYYY-MM-DD format (UTC timezone assumed)
takedownTimeMins	integer between 0 and 9999	0 if there if the exam requires no takedown, otherwise the number of minutes of takedown time required
takehomePredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of takehome exam(s) after which this exam must be schedule

NAME	TYPE	DESCRIPTION
useOfferAlt	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer
usePlanSize	integer between 0 and 1	1 if the scheduler is to schedule based on the planned size of the exam, 0 if based on the actual number of students
user1	string 1 to 256 chars	User-definable field 1
user2	string 1 to 256 chars	User-definable field 2
user3	string 1 to 256 chars	User-definable field 3
skipStudentClashes	integer between 0 and 1	Skip student clashes checks when auto-scheduling the exam. Does not skip student clash checks when manually moving the exam

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message*   string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message*   string

  Error codes:
```

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

15.5 DELETE /classicexam/{c}

Delete a Classic Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Exam code

RESPONSE

STATUS CODE - 200: Success - the Classic Exam was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
```

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

15.6 POST /classicexam/{c}/student/{s}

Enrol a Student in a Classic Exam

Enrol a Student in a Classic Exam to record the fact that the Student should take the Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Exam
*s	string 1 to 255 chars	Unique code to identify the Student

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
addSpecialRequirements	string	CSV list or JSON array of special requirements to add to the student-exam mapping
removeSpecialRequirements	string	CSV list or JSON array of special requirements to remove from the student-exam mapping
setSpecialRequirements	string	CSV list or JSON array of special requirements to set for the student-exam mapping

RESPONSE

STATUS CODE - 200: The Student was enrolled

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
```

- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

15.7 DELETE /classicexam/{c}/student/{s}

Un-enrol a Student from a Classic Exam

Un-enrol a Student from a Classic Exam because the Student is no longer taking the Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Exam
*s	string 1 to 255 chars	Unique code to identify the Student

RESPONSE

STATUS CODE - 200: The Student was un-enrolled

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

15.8 GET /serial exams

Get all Serial Exams

Return JSON array of all Serial Exams

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*assessmentPeriodCode	string 1 to 25 chars	Unique code to identify the Assessment Period
useAltcode	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: A JSON array of Serial Exam objects

RESPONSE MODEL - application/json

```
[ {
```

Array of object:

assessmentPeriod	string	1 to 25 chars	Code of the Assessment Period to which the Assessment belongs
assessmentType	string	1 to 255 chars	Optional user-defined name for the type of the assessment
breakDurationMinutes	integer		The amount of time that a break should last in minutes
building	string	1 to 45 chars	If the exam must be scheduled into a specific building, then this field is the code of that building
campus	string	1 to 45 chars	If the exam must be scheduled into a specific campus, then this field is the code of that campus
capabilities	string		List of room capabilities required by the exam
code	string	1 to 255 chars	A code to identify one classic exams from amongst all the classic exams
complexity	integer		A calculated value representing how hard the exam is to scheduled (higher numbers are harder to schedule)
concurrency	integer		The number of tracks that can run parallel to each other
dayTemplate	string	1 to 45 chars	The name of the day template for the exam
description	string	1 to 255 chars	A description of the exam
endDate	string	19 to 19 chars	The latest date on which the scheduler should put the exam
exclusiveStaff	integer	between 0 and 1	1 if the academic staff associated with this exam cannot supervise any other exam concurrently with this exam, otherwise 0
friendlyName	string	1 to 255 chars	Free-text alternative name for the exam
maxPerInvigilator	number		The maximum number of candidates that an invigilator should have to supervise for this exam
minutesBetweenBreaks	integer		The amount of time that should separate breaks in minutes
name	string	1 to 255 chars	The name for the exam
noPublishStaff	integer	between 0 and 1	Flag to say whether staff should see the Exam in their timetable (0) or (1)
noPublishStudents	integer	between 0 and 1	

notes	string	Flag to say whether students should see the Exam in their timetable (0) or (1) 1 to 1000 chars Free-text field
offer	string	1 to 511 chars The code of the Module and the name of the Offer that the exam belongs to (with a space to separate them)
personalDeadlineEnabled	integer	between 0 and 1 Flag to say whether students can have a personal deadline
plannedSlotsPerTrack	integer	The number of planned slots to have per track
plannedStartDateTime	string	The date and time that the Serial Exam is planned to start at
plannedStudentsPerTrackSlot	integer	DEFAULT:1 The number of students who can participate per track slot
planSize	integer	The planned size for the exam
preferredStart	string	1 to 100 chars The name of the Preferred Start Slots pattern that the automaic scheduler must use
ready	integer	between 0 and 1 Flag to say whether the Exam is ready
roomPool	string	1 to 65 chars The name of the Room Pool that the automaic scheduler must use
roomSizePerTrack	integer	The minimum size of the room into which a Track can be put
sequence	number	When provided, the automatic scheduler must schedule exams with higher sequence numbers after exams with lower sequence numbers
setupTimeMins	number	When provided, the automatic scheduler must allow additional time at the start of the exam session for setup
slotGroup	string	1 to 255 chars An option Slot Group name. The automatic scheduler must start all exams in the same Slot Group at the same time.
staff	[string]	1 to 45 chars Unique code to identify the Staff
startDate	string	19 to 19 chars The earliest date on which the scheduler should put the exam
students	[string]	1 to 60 chars Unique code to identify the student
takedownTimeMins	number	When provided, the automatic scheduler must allow additional time at the end of the exam session for takedown
trackSlotLengthMins	number	The default duration of each slot in a track measured in minutes
usePlanSize	integer	DEFAULT:1 Flag to say whether to use the Plan Size or not
user1	string	1 to 256 chars User-defined field
user2	string	1 to 256 chars User-defined field
user3	string	1 to 256 chars User-defined field
skipStudentClashes	integer	between 0 and 1 Skip student clashes checks when auto-scheduling the exam. Does not skip student clash checks when manually moving the exam
}]		

15.9 GET /serialexam/{c}

Get one Serial Exam

Get details for one Serial Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Exam

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: A Serial Exam object

RESPONSE MODEL - application/json

{			
assessmentPeriod	string	1 to 25 chars	Code of the Assessment Period to which the Assessment belongs
assessmentType	string	1 to 255 chars	Optional user-defined name for the type of the assessment
breakDurationMinutes	integer		The amount of time that a break should last in minutes
building	string	1 to 45 chars	If the exam must be scheduled into a specific building, then this field is the code of that building
campus	string	1 to 45 chars	If the exam must be scheduled into a specific campus, then this field is the code of that campus
capabilities	string		List of room capabilities required by the exam
code	string	1 to 255 chars	A code to identify one classic exams from amongst all the classic exams
complexity	integer		A calculated value representing how hard the exam is to scheduled (higher numbers are harder to schedule)
concurrency	integer		The number of tracks that can run parallel to each other
dayTemplate	string	1 to 45 chars	The name of the day template for the exam
description	string	1 to 255 chars	A description of the exam
endDate	string	19 to 19 chars	The latest date on which the scheduler should put the exam
exclusiveStaff	integer	between 0 and 1	1 if the academic staff associated with this exam cannot supervise any other exam concurrently with this exam, otherwise 0
friendlyName	string	1 to 255 chars	Free-text alternative name for the exam
maxPerInvigilator	number		The maximum number of candidates that an invigilator should have to supervise for this exam
minutesBetweenBreaks	integer		The amount of time that should separate breaks in minutes
name	string	1 to 255 chars	The name for the exam
noPublishStaff	integer	between 0 and 1	Flag to say whether staff should see the Exam in their timetable (0) or (1)
noPublishStudents	integer	between 0 and 1	Flag to say whether students should see the Exam in their timetable (0) or (1)
notes	string	1 to 1000 chars	Free-text field
offer	string	1 to 511 chars	The code of the Module and the name of the Offer that the exam belongs to (with a space to separate them)

personalDeadlineEnabled	integer	between 0 and 1	Flag to say whether students can have a personal deadline
plannedSlotsPerTrack	integer		The number of planned slots to have per track
plannedStartDateTime	string		The date and time that the Serial Exam is planned to start at
plannedStudentsPerTrackSlot	integer	DEFAULT:1	The number of students who can participate per track slot
planSize	integer		The planned size for the exam
preferredStart	string	1 to 100 chars	The name of the Preferred Start Slots pattern that the automatic scheduler must use
ready	integer	between 0 and 1	Flag to say whether the Exam is ready
roomPool	string	1 to 65 chars	The name of the Room Pool that the automatic scheduler must use
roomSizePerTrack	integer		The minimum size of the room into which a Track can be put
sequence	number		When provided, the automatic scheduler must schedule exams with higher sequence numbers after exams with lower sequence numbers
setupTimeMins	number		When provided, the automatic scheduler must allow additional time at the start of the exam session for setup
slotGroup	string	1 to 255 chars	An option Slot Group name. The automatic scheduler must start all exams in the same Slot Group at the same time.
staff	[string]	1 to 45 chars	Unique code to identify the Staff
startDate	string	19 to 19 chars	The earliest date on which the scheduler should put the exam
students	[string]	1 to 60 chars	Unique code to identify the student
takedownTimeMins	number		When provided, the automatic scheduler must allow additional time at the end of the exam session for takedown
trackSlotLengthMins	number		The default duration of each slot in a track measured in minutes
usePlanSize	integer	DEFAULT:1	Flag to say whether to use the Plan Size or not
user1	string	1 to 256 chars	User-defined field
user2	string	1 to 256 chars	User-defined field
user3	string	1 to 256 chars	User-defined field
skipStudentClashes	integer	between 0 and 1	Skip student clashes checks when auto-scheduling the exam. Does not skip student clash checks when manually moving the exam
}			

15.10 PUT /serialexam/{c}

Update a Serial Exam

Update an existing Serial Exam

REQUEST

PATH PARAMETERS		
NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Exam code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
capabilities	string min:1 chars	CSV list (or JSON array) of names of Capabilities
assessmentPeriodCode	string 1 to 25 chars	Unique code to identify the Assessment Period
assessmentType	string 1 to 255 chars	Unique name to identify the Assessment Type
breakDurationMinutes	integer ≥0	The amount of time that a break should last in minutes
building	string 1 to 45 chars	Identifying code for a building
campus	string 1 to 45 chars	Identifying code for a campus
classicPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of classic exam(s) after which this exam must be scheduled
complexity	integer ≥0	a numeric indication of how hard the exam is to schedule where low numbers mean easy and higher numbers mean harder
concurrency	integer between 1 and 999	The number of tracks that can run parallel to each other
dayTemplate	string 1 to 45 chars	Day Template Name
description	string 1 to 255 chars	a description of the exam
endDate	string 10 to 10 chars	End date in YYYY-MM-DD format (UTC timezone assumed)
friendlyName	string 1 to 255 chars	Another name for the Exam
name	string 1 to 255 chars	Name for the Exam
exclusiveStaff	integer between 0 and 1	a flag to say whether the academic staff responsible for the exam content can be responsible for one exam only at a time
fixedRooms	string min:1 chars	CSV list (or JSON array) of code(s) of Room(s) into which the activity or exam should be scheduled
maxPerInvigilator	integer between 0 and 9999	a maximum number of students that a single invigilator can manage
minutesBetweenBreaks	integer ≥0	The amount of time that should separate breaks in minutes
module	string 1 to 255 chars	Unique code to identify the module. Required if parameter "offer" is used and "useAltC" is false
noPublishStaff	integer between 0 and 1	a flag to say whether this exam should be shown in the Staff Portal

NAME	TYPE	DESCRIPTION
noPublishStudents	integer between 0 and 1	a flag to say whether this exam should be shown in the Students Portal
notes	string min:1 chars	Free-text notes
offer	string 1 to 255 chars	If param 'useAltC' is sent and has the value '1' then param 'offer' is the name of the offer. Otherwise 'offer' is the Alt Code of the offer.
personalDeadlineEnabled	integer between 0 and 1	a flag to say whether each student in the exam can have their own personal deadline
plannedSlotsPerTrack	integer >=1	The number of planned slots to have per track
plannedStartDate	string 10 to 10 chars	The date that the Serial Exam is planned to start at
plannedStartTime	integer between 0 and 1439	The time that the Serial Exam is planned to start at as a number of minutes after midnight
plannedStudentsPerTrackSlot	integer >=0	The number of students who can participate per track slot
planSize	integer between 0 and 9999	the planned (expected) size for the exam
preferredStart	string 1 to 100 chars	The name of a Start Slots pattern
ready	integer between 0 and 1	flag to show whether the exam is ready or not
roomPool	string min:1 chars	CSV list (or JSON array) of name(s) of Room Pool(s) into which the exam should be scheduled
roomSizePerTrack	integer between 0 and 9999	The minimum size of each room in which a track is to be scheduled
sequence	number between 0 and 9999	the exam with sequence number n will always be scheduled after exams with lower sequence numbers
serialPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of serial exam(s) after which this exam must be schedule
setupTimeMins	integer between 0 and 9999	0 if there if the exam requires no setup, otherwise the number of minutes of setup time required
slotGroup	string	a user-defined string that is shared between two (or more) exams to ensure they are scheduled at the same time
staff	string	CSV list (or JSON array) of codes of Staff
startDate	string 10 to 10 chars	Start date in YYYY-MM-DD format (UTC timezone assumed)
takedownTimeMins	integer between 0 and 9999	0 if there if the exam requires no takedown, otherwise the number of minutes of takedown time required

NAME	TYPE	DESCRIPTION
takehomePredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of takehome exam(s) after which this exam must be schedule
trackSlotLengthMins	integer between 0 and 9999	The default duration of each slot in a track measured in minutes.
useOfferAlt	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer
usePlanSize	integer between 0 and 1	1 if the scheduler is to schedule based on the planned size of the exam, 0 if based on the actual number of students
user1	string 1 to 256 chars	User-definable field 1
user2	string 1 to 256 chars	User-definable field 2
user3	string 1 to 256 chars	User-definable field 3
skipStudentClashes	integer between 0 and 1	Skip student clashes checks when auto-scheduling the exam. Does not skip student clash checks when manually moving the exam

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

15.11 POST /serialexam/{c}

Create a Serial Exam

Create a new Serial Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Exam code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
capabilities	string min:1 chars	CSV list (or JSON array) of names of Capabilities
*assessmentPeriodCode	string 1 to 25 chars	Unique code to identify the Assessment Period
assessmentType	string 1 to 255 chars	Unique name to identify the Assessment Type
breakDurationMinutes	integer ≥0	The amount of time that a break should last in minutes
building	string 1 to 45 chars	Identifying code for a building
campus	string 1 to 45 chars	Identifying code for a campus
canCreateSessions	number between 0 and 1	1 means that the automatic Exam scheduler is allowed to create new Exam Sessions, otherwise the scheduler must use existing Exam Sessions
classicPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of classic exam(s) after which this exam must be scheduled
complexity	integer ≥0	a numeric indication of how hard the exam is to schedule where low numbers mean easy and higher numbers mean harder
concurrency	integer between 1 and 999	The number of tracks that can run parallel to each other
dayTemplate	string 1 to 45 chars	Day Template Name
description	string 1 to 255 chars	a description of the exam
endDate	string 10 to 10 chars	End date in YYYY-MM-DD format (UTC timezone assumed)
friendlyName	string 1 to 255 chars	Another name for the Exam
*name	string 1 to 255 chars	Name for the Exam
exclusiveStaff	integer between 0 and 1	a flag to say whether the academic staff responsible for the exam content can be responsible for one exam only at a time
fixedRooms	string min:1 chars	CSV list (or JSON array) of code(s) of Room(s) into which the activity or exam should be scheduled
maxPerInvigilator	integer between 0 and 9999	a maximum number of students that a single invigilator can manage
minutesBetweenBreaks	integer ≥0	The amount of time that should separate breaks in minutes
module	string 1 to 255 chars	Unique code to identify the module. Required if parameter "offer" is used and "useAltC" is false

NAME	TYPE	DESCRIPTION
noPublishStaff	integer between 0 and 1	a flag to say whether this exam should be shown in the Staff Portal
noPublishStudents	integer between 0 and 1	a flag to say whether this exam should be shown in the Students Portal
notes	string min:1 chars	Free-text notes
*offer	string 1 to 255 chars	If param 'useAltC' is sent and has the value '1' then param 'offer' is the Alt Code of the offer. Otherwise 'offer' is the name of the offer.
personalDeadlineEnabled	integer between 0 and 1	a flag to say whether each student in the exam can have their own personal deadline
plannedSlotsPerTrack	integer >=1	The number of planned slots to have per track
plannedStartDate	string 10 to 10 chars	The date that the Serial Exam is planned to start at
plannedStartTime	integer between 0 and 1439	The time that the Serial Exam is planned to start at as a number of minutes after midnight
plannedStudentsPerTrackSlot	integer >=0	The number of students who can participate per track slot
planSize	integer between 0 and 9999	the planned (expected) size for the exam
preferredStart	string 1 to 100 chars	The name of a Start Slots pattern
ready	integer between 0 and 1	flag to show whether the exam is ready or not
roomPool	string min:1 chars	CSV list (or JSON array) of name(s) of Room Pool(s) into which the exam should be scheduled
*roomSizePerTrack	integer between 0 and 9999	The minimum size of each room in which a track is to be scheduled
sequence	number between 0 and 9999	the exam with sequence number n will always be scheduled after exams with lower sequence numbers
serialPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of serial exam(s) after which this exam must be schedule
setupTimeMins	integer between 0 and 9999	0 if there if the exam requires no setup, otherwise the number of minutes of setup time required
slotGroup	string	a user-defined string that is shared between two (or more) exams to ensure they are scheduled at the same time
staff	string	CSV list (or JSON array) of codes of Staff
startDate	string 10 to 10 chars	Start date in YYYY-MM-DD format (UTC timezone assumed)

NAME	TYPE	DESCRIPTION
takedownTimeMins	integer between 0 and 9999	0 if there if the exam requires no takedown, otherwise the number of minutes of takedown time required
takehomePredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of takehome exam(s) after which this exam must be schedule
*trackSlotLengthMins	integer between 0 and 9999	The default duration of each slot in a track measured in minutes.
useOfferAltc	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer
usePlanSize	integer between 0 and 1	1 if the scheduler is to schedule based on the planned size of the exam, 0 if based on the actual number of students
user1	string 1 to 256 chars	User-definable field 1
user2	string 1 to 256 chars	User-definable field 2
user3	string 1 to 256 chars	User-definable field 3
skipStudentClashes	integer between 0 and 1	Skip student clashes checks when auto-scheduling the exam. Does not skip student clash checks when manually moving the exam

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```

    message* string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

    message* string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

    message* string
}

```

15.12 DELETE /serialexam/{c}

Delete a Serial Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Exam code

RESPONSE

STATUS CODE - 200: Success - the Serial Exam was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
}
```

Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

15.13 POST /serialexam/{c}/student/{s}

Enrol a Student in a Serial Exam

Enrol a Student in a Serial Exam to record the fact that the Student should take the Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Exam
*s	string 1 to 255 chars	Unique code to identify the Student

RESPONSE

STATUS CODE - 200: The Student was enrolled

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
}
```

- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

15.14 DELETE /serialexam/{c}/student/{s}

Un-enrol a Student from a Serial Exam

Un-enrol a Student from a Serial Exam because the Student is no longer taking the Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Exam
*s	string 1 to 255 chars	Unique code to identify the Student

RESPONSE

STATUS CODE - 200: The Student was un-enrolled

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
```

- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

15.15 GET /takehomeexams

Get all Takehome Exams

Return JSON array of all Takehome Exams

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*assessmentPeriodCode	string 1 to 25 chars	Unique code to identify the Assessment Period
useAltcode	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: A JSON array of Takehome Exam objects

RESPONSE MODEL - application/json

[{
Array of object:

assessmentPeriod	string	1 to 25 chars Code of the Assessment Period to which the Assessment belongs
assessmentType	string	1 to 255 chars Optional user-defined name for the type of the assessment
code	string	1 to 255 chars A code to identify one classic exams from amongst all the classic exams
complexity	integer	A calculated value representing how hard the exam is to scheduled (higher numbers are harder to schedule)
description	string	1 to 255 chars A description of the exam
durationMins	integer	Duration of the exam in minutes
exclusive	integer	between 0 and 1 1 if the students taking the exam cannot take any other exams concurrently with this exam, otherwise 0
friendlyName	string	1 to 255 chars Free-text alternative name for the exam
fixedTime	number	The time at which the exam should start, as a number of minutes past midnight
name	string	1 to 255 chars The name for the exam
noConscheck	integer	between 0 and 1 The 'No Constraints Check' flag for the exam
noPublishStaff	integer	between 0 and 1 Flag to say whether staff should see the Exam in their timetable (0) or (1)
noPublishStudents	integer	between 0 and 1 Flag to say whether students should see the Exam in their timetable (0) or (1)
notes	string	1 to 1000 chars Free-text field
offer	string	1 to 511 chars The code of the Module and the name of the Offer that the exam belongs to (with a space to separate them)
personalDeadlineEnabled	integer	between 0 and 1 Flag reflecting the 'Personal Deadline Enabled' setting for the exam
planSize	number	The planned size for the exam
ready	integer	between 0 and 1 Flag to say whether the Exam is ready
sequence	number	When provided, the automatic scheduler must schedule exams with higher sequence numbers after exams with lower sequence numbers
skipStudentClashes	integer	between 0 and 1 Skip student clashes checks when auto-scheduling the exam. Does not skip student

staff	[string]	1 to 45 chars	clash checks when manually moving the exam
students	[string]	1 to 60 chars	Unique code to identify the Staff
submissionDate	string	19 to 19 chars	Unique code to identify the student
submissionStartDate	string	19 to 19 chars	The date and time at which the completed takehome exam must be submitted by the students
usePlanSize	integer	between 0 and 1	The date and time at which the takehome exam is made available for students to start
user1	string	1 to 256 chars	Flag to say whether the automatic scheduler should use the Plan Size or the actual size (number of students) of the exam
user2	string	1 to 256 chars	User-defined field
user3	string	1 to 256 chars	User-defined field
			User-defined field

}]

15.16 GET /takehomeexam/{c}

Get one Takehome Exam

Get details for one Takehome Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Exam

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: A Takehome Exam object

RESPONSE MODEL - application/json

{		
assessmentPeriod	string	1 to 25 chars
		Code of the Assessment Period to which the Assessment belongs
assessmentType	string	1 to 255 chars
		Optional user-defined name for the type of the assessment
code	string	1 to 255 chars
		A code to identify one classic exams from amongst all the classic exams
complexity	integer	A calculated value representing how hard the exam is to scheduled (higher numbers are harder to schedule)
description	string	1 to 255 chars
		A description of the exam
durationMins	integer	Duration of the exam in minutes

exclusive	integer	between 0 and 1	1 if the students taking the exam cannot take any other exams concurrently with this exam, otherwise 0
friendlyName	string	1 to 255 chars	Free-text alternative name for the exam
fixedTime	number		The time at which the exam should start, as a number of minutes past midnight
name	string	1 to 255 chars	The name for the exam
noConscheck	integer	between 0 and 1	The 'No Constraints Check' flag for the exam
noPublishStaff	integer	between 0 and 1	Flag to say whether staff should see the Exam in their timetable (0) or (1)
noPublishStudents	integer	between 0 and 1	Flag to say whether students should see the Exam in their timetable (0) or (1)
notes	string	1 to 1000 chars	Free-text field
offer	string	1 to 511 chars	The code of the Module and the name of the Offer that the exam belongs to (with a space to separate them)
personalDeadlineEnabled	integer	between 0 and 1	Flag reflecting the 'Personal Deadline Enabled' setting for the exam
planSize	number		The planned size for the exam
ready	integer	between 0 and 1	Flag to say whether the Exam is ready
sequence	number		When provided, the automatic scheduler must schedule exams with higher sequence numbers after exams with lower sequence numbers
skipStudentClashes	integer	between 0 and 1	Skip student clashes checks when auto-scheduling the exam. Does not skip student clash checks when manually moving the exam
staff	[string]	1 to 45 chars	Unique code to identify the Staff
students	[string]	1 to 60 chars	Unique code to identify the student
submissionDate	string	19 to 19 chars	The date and time at which the completed takehome exam must be submitted by the students
submissionStartDate	string	19 to 19 chars	The date and time at which the takehome exam is made available for students to start
usePlanSize	integer	between 0 and 1	Flag to say whether the automatic scheduler should use the Plan Size or the actual size (number of students) of the exam
user1	string	1 to 256 chars	User-defined field
user2	string	1 to 256 chars	User-defined field
user3	string	1 to 256 chars	User-defined field
}			

15.17 PUT /takehomeexam/{c}

Update a Takehome Exam

Update an existing Takehome Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Exam code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
assessmentPeriodCode	string 1 to 25 chars	Unique code to identify the Assessment Period
assessmentType	string 1 to 255 chars	Unique name to identify the Assessment Type
classicPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of classic exam(s) after which this exam must be scheduled
complexity	integer ≥0	a numeric indication of how hard the exam is to schedule where low numbers mean easy and higher numbers mean harder
description	string 1 to 255 chars	a description of the exam
durationMinutes	number ≥1	The length of the Exam in minutes
friendlyName	string 1 to 255 chars	Another name for the Exam
name	string 1 to 255 chars	Name for the Exam
exclusive	integer between 0 and 1	1 means that the student taking this exam should not be taking any other exams at the same time
fixedTime	integer between 0 and 1439	Number of minutes past midnight at which the activity or exam should be scheduled
module	string 1 to 255 chars	Unique code to identify the module. Required if parameter "offer" is used and "useAltC" is false
noPublishStaff	integer between 0 and 1	a flag to say whether this exam should be shown in the Staff Portal
noPublishStudents	integer between 0 and 1	a flag to say whether this exam should be shown in the Students Portal
notes	string min:1 chars	Free-text notes
offer	string 1 to 255 chars	If param 'useAltC' is sent and has the value '1' then param 'offer' is the name of the offer. Otherwise 'offer' is the Alt Code of the offer.
personalDeadlineEnabled	integer between 0 and 1	a flag to say whether each student in the exam can have their own personal deadline
planSize	integer between 0 and 9999	the planned (expected) size for the exam
ready	integer between 0 and 1	flag to show whether the exam is ready or not
sequence	number between 0 and 9999	the exam with sequence number n will always be scheduled after exams with lower sequence numbers

NAME	TYPE	DESCRIPTION
serialPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of serial exam(s) after which this exam must be schedule
staff	string	CSV list (or JSON array) of codes of Staff
submissionDate	string 17 to 17 chars	Submission date and time in UTC formatted like 2020-08-31T09:30Z
submissionStartDate	string 17 to 17 chars	Start date and time in UTC formatted like 2020-08-31T09:30Z
takehomePredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of takehome exam(s) after which this exam must be schedule
useOfferAlt	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer
usePlanSize	integer between 0 and 1	1 if the scheduler is to schedule based on the planned size of the exam, 0 if based on the actual number of students
user1	string 1 to 256 chars	User-definable field 1
user2	string 1 to 256 chars	User-definable field 2
user3	string 1 to 256 chars	User-definable field 3
skipStudentClashes	integer between 0 and 1	Skip student clashes checks when auto-scheduling the exam. Does not skip student clash checks when manually moving the exam

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message* string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

}

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

15.18 POST /takehomeexam/{c}

Create a Takehome Exam

Create a new Takehome Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Exam code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*assessmentPeriodCode	string 1 to 25 chars	Unique code to identify the Assessment Period
assessmentType	string 1 to 255 chars	Unique name to identify the Assessment Type
classicPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of classic exam(s) after which this exam must be scheduled
complexity	integer ≥0	a numeric indication of how hard the exam is to schedule where low numbers mean easy and higher numbers mean harder
description	string 1 to 255 chars	a description of the exam
*durationMinutes	number ≥1	The length of the Exam in minutes
friendlyName	string 1 to 255 chars	Another name for the Exam
*name	string 1 to 255 chars	Name for the Exam
exclusive	integer between 0 and 1	1 means that the student taking this exam should not be taking any other exams at the same time
fixedTime	integer between 0 and 1439	Number of minutes past midnight at which the activity or exam should be scheduled
module	string 1 to 255 chars	Unique code to identify the module. Required if parameter "offer" is used and "useAltC" is false
noPublishStaff	integer between 0 and 1	a flag to say whether this exam should be shown in the Staff Portal
noPublishStudents	integer between 0 and 1	a flag to say whether this exam should be shown in the Students Portal
notes	string min:1 chars	Free-text notes
*offer	string 1 to 255 chars	If param 'useAltC' is sent and has the value '1' then param 'offer' is the Alt Code of the offer. Otherwise 'offer' is the name of the offer.
personalDeadlineEnabled	integer between 0 and 1	a flag to say whether each student in the exam can have their own personal deadline
planSize	integer between 0 and 9999	the planned (expected) size for the exam
ready	integer between 0 and 1	flag to show whether the exam is ready or not
sequence	number between 0 and 9999	the exam with sequence number n will always be scheduled after exams with lower sequence numbers
serialPredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of serial exam(s) after which this exam must be schedule
staff	string	CSV list (or JSON array) of codes of Staff
submissionDate	string 17 to 17 chars	Submission date and time in UTC formatted like 2020-08-31T09:30Z

NAME	TYPE	DESCRIPTION
submissionStartDate	string 17 to 17 chars	Start date and time in UTC formatted like 2020-08-31T09:30Z
takehomePredecessors	string min:1 chars	CSV list (or JSON array) of code(s) of takehome exam(s) after which this exam must be schedule
useOfferAlt	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer
usePlanSize	integer between 0 and 1	1 if the scheduler is to schedule based on the planned size of the exam, 0 if based on the actual number of students
user1	string 1 to 256 chars	User-definable field 1
user2	string 1 to 256 chars	User-definable field 2
user3	string 1 to 256 chars	User-definable field 3
skipStudentClashes	integer between 0 and 1	Skip student clashes checks when auto-scheduling the exam. Does not skip student clash checks when manually moving the exam

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message*   string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

15.19 DELETE /takehomeexam/{c}

Delete a Takehome Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Exam code

RESPONSE

STATUS CODE - 200: Success - the Takehome Exam was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{

```



```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

15.20 POST /takehomeexam/{c}/student/{s}

Enrol a Student in a Takehome Exam

Enrol a Student in a Takehome Exam to record the fact that the Student should take the Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Exam
*s	string 1 to 255 chars	Unique code to identify the Student

RESPONSE

STATUS CODE - 200: The Student was enrolled

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```

    message* string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

    message* string
}

```

15.21 DELETE /takehomeexam/{c}/student/{s}

Un-enrol a Student from a Takehome Exam

Un-enrol a Student from a Takehome Exam because the Student is no longer taking the Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Exam
*s	string 1 to 255 chars	Unique code to identify the Student

RESPONSE

STATUS CODE - 200: The Student was un-enrolled

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database

```

- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

15.22 GET /submissions

Get all Submissions

Return JSON array of all Submissions

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
*assessmentPeriodCode	string 1 to 25 chars	Unique code to identify the Assessment Period

RESPONSE

STATUS CODE - 200: A JSON array of Submission objects

RESPONSE MODEL - application/json

[{

Array of object:

activityName	string	1 to 255 chars	Name of the activity for the submission
activityVisibility	integer	between 0 and 1	Flag to say whether the activity is visible
allowLateSubmissions	integer	between 0 and 1	Flag to say whether late submissions are allowed
assessmentType	string	1 to 255 chars	Optional user-defined name for the type of the assessment
assessorAnonymity	integer	between 0 and 1	Flag to say whether assessor anonymity is allowed
blindMarking	integer	between 0 and 1	Flag to say whether marking must be done blind
code	string	1 to 255 chars	A code to identify one submission from amongst all the submissions
description	string	1 to 255 chars	A description of the exam
friendlyName	string	1 to 255 chars	Free-text alternative name for the exam
generalFeedback	string	19 to 19 chars	The date by which general feedback will be given
generalFeedbackEnable	integer	between 0 and 1	Flag to say whether a general feedback will be given
individualFeedback	string	19 to 19 chars	The date by which individual feedback will be given
mitigationEnabled	integer	between 0 and 1	Flag to say whether a general feedback will be given
name	string	1 to 255 chars	The name for the exam
notes	string	1 to 1000 chars	Free-text field
offer	string	1 to 511 chars	The code of the Module and the name of the Offer that the exam belongs to (with a space to separate them)
personalDeadlineEnabled	integer	between 0 and 1	Flag to say whether students can have a personal deadline
plagiarismAllowNonOrSubmissions	integer	between 0 and 1	Flag
plagiarismCompareInternet	integer	between 0 and 1	Flag
plagiarismCompareJournals	integer	between 0 and 1	Flag
plagiarismCompareStudentPapers	integer	between 0 and 1	Flag
plagiarismExcludeBiblio	integer	between 0 and 1	Flag
plagiarismExcludeMatches	integer	between 0 and 2	Flag

plagiarismExcludeMatchesValue	integer	>=0	
plagiarismExcludeQuoted	integer	between 0 and 1	Flag
plagiarismReportGen	integer	between 0 and 2	Flag
plagiarismShowStudentReport	integer	between 0 and 1	Flag
plagiarismSubmitPapersTo	integer	between 0 and 1	Flag
ready	integer	between 0 and 1	Flag to say whether the Exam is ready
reassessment	integer	between 0 and 1	Flag to say whether the Exam is ready
sequence	number		When provided, the automatic scheduler must schedule exams with higher sequence numbers after exams with lower sequence numbers
submissionDate	string	19 to 19 chars	The earliest date on which the scheduler should put the exam
submissionFileNumber	integer	>=0	Maximum number of files that may be submitted
submissionFileSize	string		Maximum size of each submitted file
submissionFileTypes	string		Type(s) of submitted files that will be accepted
submissionStartDate	string	19 to 19 chars	Date (and time) at which students may start working on the submission
useGroups	integer	between 0 and 1	Flag to say whether groups are to be used
usePlagiarismCheckingSoftware	integer	between 0 and 1	Flag to say whether plagiarism checking software is to be used
user1	string	1 to 255 chars	User-defined field
user2	string	1 to 255 chars	User-defined field
user3	string	1 to 255 chars	User-defined field
}]			

15.23 GET /submission/{c}

Get one Submission

Get details for one Submission

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the Exam

RESPONSE

STATUS CODE - 200: A Submission object

RESPONSE MODEL - application/json

{		
activityName	string	1 to 255 chars Name of the activity for the submission

activityVisibility	integer	between 0 and 1	Flag to say whether the activity is visible
allowLateSubmissions	integer	between 0 and 1	Flag to say whether late submissions are allowed
assessmentType	string	1 to 255 chars	Optional user-defined name for the type of the assessment
assessorAnonymity	integer	between 0 and 1	Flag to say whether assessor anonymity is allowed
blindMarking	integer	between 0 and 1	Flag to say whether marking must be done blind
code	string	1 to 255 chars	A code to identify one submission from amongst all the submissions
description	string	1 to 255 chars	A description of the exam
friendlyName	string	1 to 255 chars	Free-text alternative name for the exam
generalFeedback	string	19 to 19 chars	The date by which general feedback will be given
generalFeedbackEnable	integer	between 0 and 1	Flag to say whether a general feedback will be given
individualFeedback	string	19 to 19 chars	The date by which individual feedback will be given
mitigationEnabled	integer	between 0 and 1	Flag to say whether a general feedback will be given
name	string	1 to 255 chars	The name for the exam
notes	string	1 to 1000 chars	Free-text field
offer	string	1 to 511 chars	The code of the Module and the name of the Offer that the exam belongs to (with a space to separate them)
personalDeadlineEnabled	integer	between 0 and 1	Flag to say whether students can have a personal deadline
plagiarismAllowNonOrSubmissions	integer	between 0 and 1	Flag
plagiarismCompareInternet	integer	between 0 and 1	Flag
plagiarismCompareJournals	integer	between 0 and 1	Flag
plagiarismCompareStudentPapers	integer	between 0 and 1	Flag
plagiarismExcludeBiblio	integer	between 0 and 1	Flag
plagiarismExcludeMatches	integer	between 0 and 2	Flag
plagiarismExcludeMatchesValue	integer	>=0	Flag
plagiarismExcludeQuoted	integer	between 0 and 1	Flag
plagiarismReportGen	integer	between 0 and 2	Flag
plagiarismShowStudentReport	integer	between 0 and 1	Flag
plagiarismSubmitPapersTo	integer	between 0 and 1	Flag
ready	integer	between 0 and 1	Flag to say whether the Exam is ready
reassessment	integer	between 0 and 1	Flag to say whether the Exam is ready

sequence	number	When provided, the automatic scheduler must schedule exams with higher sequence numbers after exams with lower sequence numbers
submissionDate	string	19 to 19 chars
submissionFileNumber	integer	The earliest date on which the scheduler should put the exam >=0
submissionFileSize	string	Maximum number of files that may be submitted
submissionFileTypes	string	Maximum size of each submitted file
submissionStartDate	string	Type(s) of submitted files that will be accepted 19 to 19 chars
useGroups	integer	Date (and time) at which students may start working on the submission between 0 and 1
usePlagiarismCheckingSoftware	integer	Flag to say whether groups are to be used between 0 and 1
user1	string	Flag to say whether plagiarism checking software is to be used 1 to 255 chars
user2	string	User-defined field 1 to 255 chars
user3	string	User-defined field 1 to 255 chars
		User-defined field
}		

16. EXEMPTION

16.1 GET /exemptions

Get Exemptions

Get details for all Exemptions

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Exemptions

RESPONSE MODEL - application/json

```
[ {  
  Array of object:  
    code      string    1 to 255 chars  
                      Unique code to identify the Exemption  
    reason     string    1 to 255 chars  
                      Reason for the exemption  
    students   [string]  1 to 60 chars  
                      Unique code to identify the student  
    activities [string]  min:1 chars  
                      A unique identifier for the Activity  
  } ]
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{  
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
                      Error codes:  
                      * `100` - Bad API key, e.g. too short or malformed  
                      * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys  
                      * `102` - Missing mandatory parameter  
                      * `103` - Missing optional parameter, used when the presence of one parameter is required because of the  
                      presence of another parameter  
                      * `104` - No database found, may occur when a given database has not been loaded onto a test server  
                      * `105` - Internal server error, a catch-all for unexpected errors  
                      * `106` - No object found, i.e. the request contains a code that references no object in the database  
                      * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the  
                      database  
                      * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in  
                      the query parameters  
                      * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed  
                      * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant  
                      Department(s)  
                      * `114` - Object in use - e.g., Student groups are linked to Activities  
  message*   string  
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{  
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
                      Error codes:  
                      * `100` - Bad API key, e.g. too short or malformed  
                      * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys  
                      * `102` - Missing mandatory parameter
```

- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

16.2 POST /exemptions

Create a Exemption

Create a new Exemption

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*reason	string 1 to 255 chars	Reason for the exemption
*activities	string min:1 chars	CSV list of the Activities from which the Students are being exempted
*students	string min:1 chars	CSV list of the Students being exempted

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
```

```

code*          enum          ALLOWED:0
message*       string
newObjectCodes* [string]
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database

```

- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

16.3 DELETE /exemptions/{code}

Delete an Exemption

Delete an existing Exemption

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*code	string 1 to 255 chars	Exemption Code

RESPONSE

STATUS CODE - 200: Success - the Exemption was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
}
```

database
 * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

17. FLOOR

17.1 GET /floors

Get all Floors

Return JSON array of all Floor objects

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Floor objects

RESPONSE MODEL - application/json

```
[ {  
  Array of object:  
    n      string 1 to 45 chars  
              Name  
    code   string 1 to 45 chars  
              Code  
    bn     string 1 to 45 chars  
              Name  
    cn     string 1 to 45 chars  
              Campus name  
  } ]
```

17.2 GET /floor/{f}/{b}/{c}

Get one Floor

Get details for one Floor in the Building in the Campus

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*f	string 1 to 45 chars	Identifying name or Code for a floor
*b	string 1 to 45 chars	Identifying name for a building. Can be omitted when the "queryBy" parameter is passed
*c	string 1 to 45 chars	Identifying name for a campus. Can be omitted when the "queryBy" parameter is passed

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
queryBy	string	Parameter to query objects by. Can either be Name or Code. Defaults to Name

RESPONSE

STATUS CODE - 200: A Floor object

RESPONSE MODEL - application/json

```
{
  n      string 1 to 45 chars
           Name
  code   string 1 to 45 chars
           Code
  bn     string 1 to 45 chars
           Name
  cn     string 1 to 45 chars
           Campus name
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*   enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
           Error codes:
           * `100` - Bad API key, e.g. too short or malformed
           * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
           * `102` - Missing mandatory parameter
           * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
           presence of another parameter
           * `104` - No database found, may occur when a given database has not been loaded onto a test server
           * `105` - Internal server error, a catch-all for unexpected errors
           * `106` - No object found, i.e. the request contains a code that references no object in the database
           * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
           database
           * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
           the query parameters
           * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
           * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
           Department(s)
           * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*   enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
           Error codes:
           * `100` - Bad API key, e.g. too short or malformed
           * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
           * `102` - Missing mandatory parameter
           * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
           presence of another parameter
           * `104` - No database found, may occur when a given database has not been loaded onto a test server
           * `105` - Internal server error, a catch-all for unexpected errors
           * `106` - No object found, i.e. the request contains a code that references no object in the database
           * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
           database
           * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
           the query parameters
           * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
           * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
           Department(s)
           * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*   enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
           Error codes:
```

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```

    message* string
  }

```

17.3 PUT /floor/{f}/{b}/{c}

Update a floor

Update an existing floor

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*f	string 1 to 45 chars	Identifying name or Code for a floor
*b	string 1 to 45 chars	Identifying name for a building. Can be omitted when the "queryBy" parameter is passed
*c	string 1 to 45 chars	Identifying name for a campus. Can be omitted when the "queryBy" parameter is passed

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
n	string 1 to 100 chars	New name
code	string 1 to 45 chars	New code
build	string 1 to 45 chars	Identifying name or code for a new building to move a building into
queryBy	string	Parameter to query objects by. Can either be Name or Code. Defaults to Name

RESPONSE

STATUS CODE - 200: Success - the Floor was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter

```


- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

17.4 POST /floor/{f}/{b}/{c}

Create a Floor

Create a new Floor

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*f	string 1 to 45 chars	Identifying name for a floor
*b	string 1 to 45 chars	Identifying name or code for a building
*c	string 1 to 45 chars	Identifying name or code for a campus

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*code	string 1 to 45 chars	Identifying code for a floor
queryBy	string	Parameter to query objects by. Can either be Name or Code. Defaults to Name

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message* string
}
```

Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message* string
}
```

Error codes:
* `100` - Bad API key, e.g. too short or malformed

- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

17.5 DELETE /floor/{f}/{b}/{c}

Delete a floor

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*f	string 1 to 45 chars	Identifying name or Code for a floor
*b	string 1 to 45 chars	Identifying name for a building. Can be omitted when the "queryBy" parameter is passed
*c	string 1 to 45 chars	Identifying name for a campus. Can be omitted when the "queryBy" parameter is passed

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
queryBy	string	Parameter to query objects by. Can either be Name or Code. Defaults to Name

RESPONSE

STATUS CODE - 200: Success - the Floor was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
```

the query parameters

* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed

* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)

* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

18. LOCATION

18.1 GET /locations

Get all Locations
Get the list of all Locations

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Locations

RESPONSE MODEL - application/json

```
[{  
  Array of object:  
    c string 1 to 255 chars  
      Unique code to identify the Location  
    n string 1 to 255 chars  
      Name to describe the Location  
}]
```

18.2 GET /location/{code}

Get one Location
Get details for one Location

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*code	string 1 to 255 chars	Location Code

RESPONSE

STATUS CODE - 200: A Location object

RESPONSE MODEL - application/json

```
{  
  c string 1 to 255 chars  
    Unique code to identify the Location  
  n string 1 to 255 chars  
    Name to describe the Location  
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{  
  code* enum ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
    Error codes:
```

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

18.3 PUT /location/{code}

Update a Location

Update an existing Location

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*code	string 1 to 255 chars	Location Code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*newCode	string 1 to 255 chars	Location Code
name	string 1 to 255 chars	Location Name

RESPONSE

STATUS CODE - 200: Success - the Location was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
```


the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

18.4 POST /location/{code}

Create a Location

Create a new Location

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*code	string 1 to 255 chars	Location Code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*name	string 1 to 255 chars	Location Name

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```
    message* string
}
```

18.5 DELETE /location/{code}

Delete a Location

Delete an existing Location

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*code	string 1 to 255 chars	Location Code

RESPONSE

STATUS CODE - 200: Success - the Location was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
```

*`114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               *`100` - Bad API key, e.g. too short or malformed
               *`101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               *`102` - Missing mandatory parameter
               *`103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               *`104` - No database found, may occur when a given database has not been loaded onto a test server
               *`105` - Internal server error, a catch-all for unexpected errors
               *`106` - No object found, i.e. the request contains a code that references no object in the database
               *`107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               *`108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               *`109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               *`110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               *`114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

19. MODULE

19.1 GET /modules

Get all Modules

Return json array of all Modules

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Module objects

RESPONSE MODEL - application/json

[{ Array of object:			
cc	string	0 to 50 chars	The module code
altc	string	0 to 64 chars	Alt Code
n	string	0 to 255 chars	The full name of the module
dn	string	1 to 90 chars	The code of the department that owns the module
dc	string	1 to 255 chars	The code of the department that owns the module
owner	string	0 to 45 chars	Staff code for the module owner.
credits	number	between 0 and 9999.999	The credits for the module
user1	string	0 to 256 chars	User-definable field 1
user2	string	0 to 256 chars	User-definable field 2
user3	string	0 to 80 chars	User-definable field 3
user4	string	0 to 80 chars	User-definable field 4
events	integer	between 0 and 0	Total number of events in module (currently always 0)
scheduledEvents	integer	between 0 and 0	Total number of scheduled events (currently always 0)
offers	string	min:1 chars	CSV list of module offer names for this module
offers.json	[string]	1 to 255 chars	The offer name
contactRequirements	string	min:1 chars	CSV list of contact requirements codes for this module
contactRequirements.json	[string]	1 to 100 chars	Unique code to identify a Contact Requirement
toDelete	integer	between 0 and 1	1 if Module is marked for deletion, otherwise 0
description	string	0 to 255 chars	Description of the Module
}]			

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```
message* string
}
```

19.2 GET /module/{c}

Get one Module

Return object of module details.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the module

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: A Module object

RESPONSE MODEL - application/json

```
{
  cc                string      0 to 50 chars
                        The module code
  altc              string      0 to 64 chars
                        Alt Code
  n                 string      0 to 255 chars
                        The full name of the module
  dn                 string      1 to 90 chars
                        The code of the department that owns the module
  dc                 string      1 to 255 chars
                        The code of the department that owns the module
  owner             string      0 to 45 chars
                        Staff code for the module owner.
  credits            number      between 0 and 9999.999
                        The credits for the module
  user1             string      0 to 256 chars
                        User-definable field 1
  user2             string      0 to 256 chars
                        User-definable field 2
  user3             string      0 to 80 chars
                        User-definable field 3
  user4             string      0 to 80 chars
                        User-definable field 4
  events            integer      between 0 and 0
                        Total number of events in module (currently always 0)
  scheduledEvents    integer      between 0 and 0
                        Total number of scheduled events (currently always 0)
  offers            string      min:1 chars
                        CSV list of module offer names for this module
```

offers.json	[string]	1 to 255 chars	The offer name
contactRequirements	string	min:1 chars	CSV list of contact requirements codes for this module
contactRequirements.json	[string]	1 to 100 chars	Unique code to identify a Contact Requirement
toDelete	integer	between 0 and 1	1 if Module is marked for deletion, otherwise 0
description	string	0 to 255 chars	Description of the Module

```

}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:

```


- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```

    message* string
  }

```

19.3 PUT /module/{c}

Update an existing Module

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the module

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
n	string 1 to 255 chars	Full name
dc	string 1 to 255 chars	Department Code
cr	number between 0 and 9999.999	The credits for the module
s	string 0 to 45 chars	The code of the staff owner
user1	string 0 to 256 chars	User-definable field 1
user2	string 0 to 256 chars	User-definable field 2
useAltc	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
altc	string 1 to 64 chars	Unique alternative code to identify the module
*cq	string 1 to 50 chars	Unique code to identify the module
desc	string 1 to 255 chars	Module Description
td	number between 0 and 1	To be used and set to 1 when the object is to be marked for deletion
sr	string 1 to 255 chars	Comma separated list of staff codes to add rights for in the module

RESPONSE

STATUS CODE - 200: Success - the Module was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
```

the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

19.4 POST /module/{c}

Create a new Module

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the module

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 255 chars	Full name
*dc	string 1 to 255 chars	Department Code
cr	number between 0 and 9999.999	The credits for the module
s	string 0 to 45 chars	The code of the staff owner
user1	string 0 to 256 chars	User-definable field 1
user2	string 0 to 256 chars	User-definable field 2
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
altC	string 1 to 64 chars	Unique alternative code to identify the module
*cq	string 1 to 50 chars	Unique code to identify the module
desc	string 1 to 255 chars	Module Description
sr	string 1 to 255 chars	Comma separated list of staff codes to add rights for in the module

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```
    message* string
}
```

19.5 DELETE /module/{c}

Delete a Module

Deletes a Module and all maps related to the module. Deletion is prevented with an HTTP code 400 server response, if there are module offers attached to the module.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the module

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: Success - the Module was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
```

presence of another parameter
 * `104` - No database found, may occur when a given database has not been loaded onto a test server
 * `105` - Internal server error, a catch-all for unexpected errors
 * `106` - No object found, i.e. the request contains a code that references no object in the database
 * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
 * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
    message* string
  }
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

20. OFFER

20.1 GET /offers

Get all Offers

Return JSON array of Offer objects

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
tf	string 1 to 110 chars	A CSV list of timeframe codes to filter the response by

REQUEST BODY - application/json

```
[{  
  Array of object:  
    n      string 1 to 255 chars  
              Offer code  
    m      string 1 to 255 chars  
              Module code  
    altc   string 1 to 255 chars  
              Offer alt code  
}]
```

RESPONSE

STATUS CODE - 200: A JSON array of Offers

RESPONSE MODEL - application/json

```
[{  
  Array of object:  
    n      string  The offer name  
    m      string  The module code  
    tf     string  The timeframe code  
    s      string  The code for the staff owner  
    dt     string  The day template  
    r      integer Running flag  
    caft   integer 1 if all Activities created from this Offer must use a Contact Requirement (0 otherwise)  
    notr   integer 1 if this is a no teaching required module, 0 otherwise.  
    ps     integer Planned size  
    altc   string  0 to 255 chars  
              Alt Code  
    user1  string  0 to 256 chars  
              User-definable field 1  
    user2  string  0 to 256 chars  
              User-definable field 2  
    cc     string  CSV list of course codes  
    gc     string  CSV list of group codes  
    module {  
      mc    string  Module code  
      altc  string  Alt code for the module  
      n     string  Module name  
      d     string  Code for the department the module belongs to
```

```

    td      integer  between 0 and 1
                        To Delete flag
    user1    string  0 to 256 chars
                        User-definable field 1
    user2    string  0 to 256 chars
                        User-definable field 2
}
groups [{
  Array of object:
    gc      string  1 to 45 chars
                        Unique code to identify the Student Group
    gn      string  1 to 255 chars
                        Name for the Student Group
    goUrl    string  The URL for this group-offer mapping
}]
courses [{
  Array of object:
    cc      string  1 to 255 chars
                        Unique code to identify the Course
}]
location    string  1 to 255 chars
                        Unique code to identify a Location
tags [{
  Array of object:
    n      string
}]
url          string  1 to 65535 chars
                        URL string for the module offer
staffObjects [{
  Array of object:
    c      string  1 to 45 chars
                        Unique code to identify the staff member
    n      string  1 to 100 chars
                        Name of the staff memver
}]
studentObjects [{
  Array of object:
    c      string  1 to 255 chars
                        Unique code to identify the student
    n      string  1 to 255 chars
                        Student name
}]
}]

```

20.2 GET /offer/{n}

Get one Offer

Get details for one Offer

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 255 chars	Offer name

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*cq	string 1 to 50 chars	Unique code to identify the module
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: An Offer object

RESPONSE MODEL - application/json

```
{
  n      string  The offer name
  m      string  The module code
  tf     string  The timeframe code
  s      string  The code for the staff owner
  dt     string  The day template
  r      integer Running flag
  caft   integer 1 if all Activities created from this Offer must use a Contact Requirement (0 otherwise)
  notr   integer 1 if this is a no teaching required module, 0 otherwise.
  ps     integer Planned size
  altc   string  0 to 255 chars
           Alt Code
  user1  string  0 to 256 chars
           User-definable field 1
  user2  string  0 to 256 chars
           User-definable field 2
  cc     string  CSV list of course codes
  gc     string  CSV list of group codes
  module {
    mc    string  Module code
    altc  string  Alt code for the module
    n     string  Module name
    d     string  Code for the department the module belongs to
    td    integer between 0 and 1
           To Delete flag
    user1 string  0 to 256 chars
           User-definable field 1
    user2 string  0 to 256 chars
           User-definable field 2
  }
  groups [{
    Array of object:
      gc    string 1 to 45 chars
           Unique code to identify the Student Group
      gn    string 1 to 255 chars
           Name for the Student Group
      goUrl string  The URL for this group-offer mapping
  }]
  courses [{
    Array of object:
      cc    string 1 to 255 chars
           Unique code to identify the Course
  }]
  location string 1 to 255 chars
```

```

                                Unique code to identify a Location
tags [{
Array of object:
    n string
}]
url          string    1 to 65535 chars
                                URL string for the module offer

staff0objects [{
Array of object:
    c string 1 to 45 chars
                                Unique code to identify the staff member
    n string 1 to 100 chars
                                Name of the staff memver
}]
student0objects [{
Array of object:
    c string 1 to 255 chars
                                Unique code to identify the student
    n string 1 to 255 chars
                                Student name
}]
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
    code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

    message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
    code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
}

```

* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

20.3 PUT /offer/{n}

Update an Offer

Update an existing Offer

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 255 chars	Offer name (or Alt Code if useAltC is true)

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
c	string 1 to 50 chars	Unique code to identify the module
tf	string 1 to 110 chars	Unique code to identify the Timeframe
notr	number between 0 and 1	1 if the offer doesn't require teaching, 0 otherwise
s	string 0 to 45 chars	The code of the staff owner
*dt	string 1 to 45 chars	Day Template Name
r	integer between 0 and 1	Running flag

NAME	TYPE	DESCRIPTION
caft	integer between 0 and 1	1 if all Activities created from this Offer must use a Contact Requirement (0 otherwise)
ps	integer between 0 and 999	Planned Size
useAltc	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
altc	string 1 to 255 chars	Unique alternative code to identify the module offer
locationCode	string 1 to 255 chars	Optional code to identify a Location
o	string 1 to 255 chars	Name to identify the offer
cc	string min:1 chars	CSV list (or JSON array) of Course codes
ccCore	string min:1 chars	CSV list (or JSON array) of Course codes for which Offer is core
ccOptional	string min:1 chars	CSV list (or JSON array) of Course codes for which Offer is optional
stu	string 0 to 255 chars	CSV list of student codes for students in this offer. The values in this parameter will replace all existing student-offer mappings for this offer
td	integer between 0 and 1	To Delete flag
addTags	string min:1 chars	CSV list (or JSON array) of names of Tag(s)
removeTags	string min:1 chars	CSV list (or JSON array) of names of Tag(s)

REQUEST BODY - application/json

```
{
  url string 1 to 65535 chars
  An online meeting URL string for the module offer. Does not need to be URL encoded
}
```

RESPONSE

STATUS CODE - 200: Success - the Offer was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code* enum ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
```

database
 * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

20.4 POST /offer/{n}

Create a new Offer

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
*n	string 1 to 255 chars	Offer name

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
notr	number between 0 and 1	1 if the offer doesn't require teaching, 0 otherwise
*c	string 1 to 50 chars	Unique code to identify the Module
*tf	string 1 to 110 chars	Unique code to identify the Timeframe
s	string 0 to 45 chars	The code of the staff owner
*dt	string 1 to 45 chars	Day Template Name
*r	integer between 0 and 1	Running flag
*caft	integer between 0 and 1	1 if all Activities created from this Offer must use a Contact Requirement (0 otherwise)
ps	integer between 0 and 999	Planned Size
altc	string 1 to 255 chars	Unique alternative code to identify the module offer
locationCode	string 1 to 255 chars	Optional code to identify a Location
useModuleAltC	number between 0 and 1	To be used when the alternative code is used to identify the Module
user1	string 0 to 60 chars	User-definable field 1
user2	string 0 to 60 chars	User-definable field 2
addTags	string min:1 chars	CSV list (or JSON array) of names of Tag(s)

REQUEST BODY - application/json

```
{
  url string 1 to 65535 chars
  An online meeting URL string for the module offer. Does not need to be URL encoded
}
```

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code* enum ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```
    message* string
}
```

20.5 DELETE /offer/{n}

Delete an Offer

Deletes a module offer

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 255 chars	Offer name

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
c	string 1 to 50 chars	Unique code to identify the module
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: Success - the Offer was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
```


- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

20.6 GET /offer/{n}/activities

Get all Offer Activities

Return JSON array of all the Activities belonging to an Offer

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 255 chars	Offer name

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*cq	string 1 to 50 chars	Unique code to identify the module
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: An array of Activity Objects

RESPONSE MODEL - application/json

```
{
  optional          number    between 0 and 1
                        A boolean flag to notify whether or not this activity may be skipped.

  sequence          number    When provided, the automatic scheduler must schedule exams with higher sequence
                                numbers after exams with lower sequence numbers

  fixedCampus       string    A unique identifier for a Campus
  fixedBuilding     string    A unique identifier for a Building
  code              string    min:1 chars
                        A unique identifier for the Activity
  capabilities       string    min:1 chars
                        CSV list of Capabilities
  coloc            string    1 to 120 chars
                        The unique name of the colocation this activity belongs to
  colocatedActivities [string] min:1 chars
                        A unique identifier for the Activity
  dayTemplate       string    1 to 45 chars
                        The name of the day template for the Activity
  departmentCode    string    1 to 255 chars
                        A unique identifier for the Department of the Module of the Activity
  description       undefined  Free-text description of the Activity
  duration          number    The duration of the Activity as a number of Slot
  events [{
    Array of object:
      uniqueId       string    Unique name to identify the Activity's event
      date           string    The date on which the Activity's event occurs
      startTime      string    The time at which the Activity's event starts
      endTime       string    The time at which the Activity's event ends
      activityDurationMins number The duration of the Activity in minutes
      week          number    The number of the week in the academic calendar counted from 1
    }]
  exceptions [{
    Array of object:
  }]
  fixedDay          number    A number for the day of the week
  fixedRooms        string    min:1 chars
                        CSV list of Room Codes for the Activity's Fixed Rooms
  fixedTime         number    The number of Slots between midnight and the Activity's Fixed (start) Time
  friendlyName      string    1 to 255 chars
                        Free-text alternative name for the Activity
  moduleCode        string    1 to 255 chars
                        A unique identifier for the Module to which the Activity belongs
  moduleAltCode     string    1 to 64 chars
                        A unique identifier for the Module to which the Activity belongs
  name              string    1 to 100 chars
                        Free-text name for the Activity
  origin            string    If the Activity is an exception, then 'origin' is the code of the parent Activity
  note              string    min:1 chars
                        Free-text note for the Activity
  offerAltCode      string    1 to 255 chars
                        A unique identifier for the ModuleOffer to which the Activity belongs
  offerName         string    1 to 255 chars
                        The name of the Module Offer to which the Activity belongs

  offer {
    The offer object this activity belongs to
      n            string    1 to 255 chars
                        Offer code

```

m	string	1 to 255 chars	
			Module code
altc	string	1 to 255 chars	
			Offer alt code
groups [{			
Array of object:			
gc	string	1 to 45 chars	
			Unique code to identify the Student Group
gn	string	1 to 255 chars	
			Name for the Student Group
goUrl	string		The URL for this group-offer mapping
}]			
tags [{			
Array of object:			
n	string		
}]			
}			
planSize	number		The planned size (i.e. number of Students) for the Activity
ready	number		1 means the activity is ready, 0 means the activity is not ready
repeats [{			
Array of object:			
}]			
repeatOf	string		If the Activity is a repeat, then 'repeatOf' is the code of the parent Activity
repeatOrigin	string		If the Activity is a repeat, then 'repeatOf' is the code of the ultimate ancestor Activity
scheduled	number		Boolean flag if the Activity is scheduled for at least one week, then 1. Otherwise 0
scheduledRooms	[string]	1 to 45 chars	
			Unique code to identify the Room
size	number		The planned or actual size (i.e. number of Students) enrolled in the Activity
staff	string	min:1 chars	
			CSV list of the Staff associated with the Activity
staff.json	[string]	1 to 45 chars	
			Unique code to identify the Staff
staffObjects [{			
Array of object:			
c	string	1 to 45 chars	
			Unique code to identify the staff member
n	string	1 to 100 chars	
			Name of the staff member
}]			
staffPublished	number	between 0 and 1	
			Boolean flag if the activity has been published to staff, then 1. If not published to staff, 0.
studentPublished	number	between 0 and 1	
			Boolean flag if the activity has been published to students, then 1. If not published to staff, 0.
studentGroups	string	min:1 chars	
			CSV list of the Student Groups enrolled in the Activity
studentObjects [{			
Array of object:			
c	string	1 to 255 chars	
			Unique code to identify the student
n	string	1 to 255 chars	
			Student name
}]			
type	string	1 to 45 chars	
			The name of the Activity type
user1	string	1 to 255 chars	
			A user-defined, free-text string.
user2	string	1 to 255 chars	
			A user-defined, free-text string.

user3	string	1 to 255 chars	A user-defined, free-text string.
user4	string	1 to 255 chars	A user-defined, free-text string.
user5	string	1 to 255 chars	A user-defined, free-text string.
user6	string	1 to 255 chars	A user-defined, free-text string.
user7	string	1 to 255 chars	A user-defined, free-text string.
virtual	number	0 means the Activity is to be scheduled into a Room, 1 means the Activity is to be scheduled into a time (but not a Room)	
meetingRequired	number	0 means the Activity does not require an online meeting, 1 means the Activity requires an online meeting	
meetingUrl	string	1 to 65535 chars	The URL for the activity's online meeting
timeframe	string	1 to 110 chars	The code of the Timeframe relative to which the weeks in the weekPattern must be evaluated
weekPattern	string	1 to 90 chars	The weeks (relative to the Timeframe) into which the Activity is to be scheduled
isoweeks	string	min:6 chars	The weeks into which the Activity is to be scheduled formatted as ISO 8601
capabilities.json	[string]	1 to 100 chars	Unique name to identify the capability
fixedRooms.json	[string]	1 to 45 chars	Unique code to identify the Room
studentGroups.json	[string]	1 to 45 chars	Unique code to identify the Student Group
academics [{ Array of object:			
code	string	1 to 45 chars	Code of the Staff member
role	string	1 to 45 chars	The code of the Role performed by the Staff member for the Activity or Booking
}]			
tags	string	min:1 chars	CSV list of tag names
tags.json	[string]	1 to 255 chars	A tag name
}			

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

code*	enum	ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:		
* `100` - Bad API key, e.g. too short or malformed		
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys		
* `102` - Missing mandatory parameter		
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter		
* `104` - No database found, may occur when a given database has not been loaded onto a test server		
* `105` - Internal server error, a catch-all for unexpected errors		
* `106` - No object found, i.e. the request contains a code that references no object in the database		
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database		
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters		
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed		
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)		
* `114` - Object in use - e.g., Student groups are linked to Activities		

```

    message* string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

    message* string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

    message* string
}

```

21. OPTIONGROUPS

21.1 GET /optiongroups

Get all Option Groups

Get details for option groups

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
n	string 1 to 25 chars	Name of option groups to filter by
tf	string 1 to 110 chars	Unique code to identify the Timeframe
status	string 1 to 25 chars	Status string of student selections for option groups to filter by. Values: pending, approved, confirmed

RESPONSE

STATUS CODE - 200: Details for the Assessment Period

RESPONSE MODEL - application/json

```
[{
```

Array of object:

course	string	1 to 255 chars Course code
timeframe	string	1 to 110 chars Timeframe code
n	string	min:1 chars Option group name
end	string	min:1 chars Date and time (UTC) when the option group selection window closes
start	string	min:1 chars Date and time (UTC) when the option group selection window opens
welcome	string	min:1 chars Option group welcome message

```
options [{
```

Array of object:

offer	string	min:1 chars Module offer code for option
-------	--------	---

```
selections [{
```

Array of object:

force	number	between 0 and 1 Flag indicating this selection is forced
backup	number	between 0 and 1 Flag indicating this selection requires a backup
capacity	number	>=0 Capacity of selection of option group
selected	number	between 0 and 1 Flag indicating the module offer is available for selection
selection	string	Flag indicating name of selection
justification	number	between 0 and 1

Flag indicating this selection requires a justification

```
    }]  
  }]  
  selections [{  
    Array of object:  
    min   number  >=0  
           Minimum offers required for selection  
    max   number  >=0  
           Maximum offers required for selection  
    name  string  min:1 chars  
           Name of selection  
  }]  
  enrolmentStart      string          UTC date and time when the enrolment starts  
  studentSelections [{  
    Array of object:  
    student            string          1 to 60 chars  
           Unique code to identify the student  
    status             string          min:1 chars  
           Student selection status. Can be pending, approved or confirmed  
    submitted          number          between 0 and 1  
           Flag indicating whether student submitted choices  
    selections {  
      selectionName {  
        offerCode {  
          selected      number  between 0 and 1  
                           Flag to indicate offer is selected for option group selection  
          useBackup      number  between 0 and 1  
                           Flag to indicate that backup offer is used  
          adminStatus    string  min:1 chars  
                           Status of offer, set by admin. Possible values: Draft, Pending, Approved,  
                           Declined, Confirmed  
          studentChoice  number  between 0 and 1  
                           Flag to indicate that offer was chosen by student  
          backupSelection string  min:1 chars  
                           Module offer code chosen as a backup by student  
          usedAsBackupFor string  min:1 chars  
                           Module offer code this offer is a backup of  
          justificationText string  1 to 300 chars  
                           Justification text written by student  
          dateUpdated    string  min:1 chars  
                           UTC date and time when admin last updated the status  
          dateConfirmed   string  min:1 chars  
                           UTC date and time when admin confirmed the selection  
          dateBackupSelected string  min:1 chars  
                           UTC date and time when student selected a backup  
          dateSelected    string  min:1 chars  
                           UTC date and time when the student chose the module offer  
        }  
      }  
    }  
  }]  
}]
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{  
  code*   enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
           Error codes:  
           * `100` - Bad API key, e.g. too short or malformed
```

- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```


22. PERFORMANCE

22.1 GET /performance

Get all performance measurements

The performance endpoint returns a list of all performance measurements.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Measurement objects

RESPONSE MODEL - application/json

```
[ {  
  Array of object:  
    c      string 1 to 100 chars  
              Unique code to identify the type of measurement  
    desc   string 1 to 1000 chars  
              A human-readable description of the measurement  
    dt     string 16 to 16 chars  
              The date and time at which the measurement was made in an ISO 8601 format  
    ms     number The value of the measurement in milliseconds  
  } ]
```

22.2 POST /performance

Create a new performance measurement

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 100 chars	Unique code to identify the type of measurement
desc	string 1 to 100 chars	A human-readable description of the measurement
*dt	string 16 to 16 chars	The date and time at which the measurement was made in an ISO 8601 format
*ms	number	The value of the measurement in milliseconds

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{  
  code*      enum    ALLOWED:0  
  message*   string  
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```
    message* string  
}
```

23. PING

23.1 GET /ping

Ping the API

A ping request that checks if the API is accessible

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: The ping was successful

RESPONSE MODEL - application/json

```
{
  ping      number
  version   string  The API specification version, i.e., the version of this document
  database  string  The name of the database the API is using
  user      string  The user linked to the API key
}
```

24. REPEAT GROUP

24.1 GET /repeatgroup/{c}

Get one Repeat Group

Get details for the Activities in the specified Repeat Group

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the Activity

RESPONSE

STATUS CODE - 200: A JSON array of Activity objects

RESPONSE MODEL - application/json

```
[{
  Array of object:
    optional          number    between 0 and 1
                        A boolean flag to notiy whether or not this activity may be skipped.
    sequence          number    When provided, the automatic scheduler must schedule exams with higher sequence
                                numbers after exams with lower sequence numbers
    fixedCampus       string    A unique indentifier for a Campus
    fixedBuilding     string    A unique indentifier for a Building
    code              string    min:1 chars
                        A unique identifier for the Activity
    capabilities      string    min:1 chars
                        CSV list of Capabilities
    coloc             string    1 to 120 chars
                        The unique name of the colocation this activity belongs to
    colocatedActivities [string] min:1 chars
                        A unique identifier for the Activity
    dayTemplate       string    1 to 45 chars
                        The name of the day template for the Activity
    departmentCode    string    1 to 255 chars
                        A unique identifier for the Department of the Module of the Activity
    description       undefined Free-text description of the Activity
    duration          number    The duration of the Activity as a number of Slot
    events [{
      Array of object:
        uniqueId      string    Unique name to identify the Activity's event
        date           string    The date on which the Activity's event occurs
        startTime      string    The time at which the Activity's event starts
        endTime        string    The time at which the Activity's event ends
        activityDurationMins number The duration of the Activity in minutes
        week           number    The number of the week in the academic calendar counted from 1
      }]
    exceptions [{
      Array of object:
        fixedDay       number    A number for the day of the week
```

fixedRooms	string	min:1 chars CSV list of Room Codes for the Activity's Fixed Rooms
fixedTime	number	The number of Slots between midnight and the Activity's Fixed (start) Time
friendlyName	string	1 to 255 chars Free-text alternative name for the Activity
moduleCode	string	1 to 255 chars A unique identifier for the Module to which the Activity belongs
moduleAltCode	string	1 to 64 chars A unique identifier for the Module to which the Activity belongs
name	string	1 to 100 chars Free-text name for the Activity
origin	string	If the Activity is an exception, then 'origin' is the code of the parent Activity
note	string	min:1 chars Free-text note for the Activity
offerAltCode	string	1 to 255 chars A unique identifier for the ModuleOffer to which the Activity belongs
offerName	string	1 to 255 chars The name of the Module Offer to which the Activity belongs
offer { The offer object this activity belongs to		
n	string	1 to 255 chars Offer code
m	string	1 to 255 chars Module code
altc	string	1 to 255 chars Offer alt code
groups [{ Array of object:		
gc	string	1 to 45 chars Unique code to identify the Student Group
gn	string	1 to 255 chars Name for the Student Group
goUrl	string	The URL for this group-offer mapping
}]		
tags [{ Array of object:		
n	string	
}]		
}		
planSize	number	The planned size (i.e. number of Students) for the Activity
ready	number	1 means the activity is ready, 0 means the activity is not ready
repeats [{ Array of object:		
}]		
repeatOf	string	If the Activity is a repeat, then 'repeatOf' is the code of the parent Activity
repeatOrigin	string	If the Activity is a repeat, then 'repeatOf' is the code of the ultimate ancestor Activity
scheduled	number	Boolean flag if the Activity is scheduled for at least one week, then 1. Otherwise 0
scheduledRooms	[string]	1 to 45 chars Unique code to identify the Room
size	number	The planned or actual size (i.e. number of Students) enrolled in the Activity
staff	string	min:1 chars CSV list of the Staff associated with the Activity
staff.json	[string]	1 to 45 chars Unique code to identify the Staff
staffObjects [{ Array of object:		
c	string	1 to 45 chars Unique code to identify the staff member

```

    n string 1 to 100 chars
        Name of the staff member
    }]
    staffPublished      number      between 0 and 1
        Boolean flag if the activity has been published to staff, then 1. If not published to staff, 0.
    studentPublished    number      between 0 and 1
        Boolean flag if the activity has been published to students, then 1. If not published to staff, 0.
    studentGroups       string      min:1 chars
        CSV list of the Student Groups enrolled in the Activity
    studentObjects [{
        Array of object:
        c string 1 to 255 chars
            Unique code to identify the student
        n string 1 to 255 chars
            Student name
    }]
    type                string      1 to 45 chars
        The name of the Activity type
    user1               string      1 to 255 chars
        A user-defined, free-text string.
    user2               string      1 to 255 chars
        A user-defined, free-text string.
    user3               string      1 to 255 chars
        A user-defined, free-text string.
    user4               string      1 to 255 chars
        A user-defined, free-text string.
    user5               string      1 to 255 chars
        A user-defined, free-text string.
    user6               string      1 to 255 chars
        A user-defined, free-text string.
    user7               string      1 to 255 chars
        A user-defined, free-text string.
    virtual             number      0 means the Activity is to be scheduled into a Room, 1 means the Activity is to be
        scheduled into a time (but not a Room)
    meetingRequired      number      0 means the Activity does not require an online meeting, 1 means the Activity requires an
        online meeting
    meetingUrl           string      1 to 65535 chars
        The URL for the activity's online meeting
    timeframe            string      1 to 110 chars
        The code of the Timeframe relative to which the weeks in the weekPattern must be
        evaluated
    weekPattern          string      1 to 90 chars
        The weeks (relative to the Timeframe) into which the Activity is to be scheduled
    isoweeks             string      min:6 chars
        The weeks into which the Activity is to be scheduled formatted as ISO 8601
    capabilities.json    [string]    1 to 100 chars
        Unique name to identify the capability
    fixedRooms.json      [string]    1 to 45 chars
        Unique code to identify the Room
    studentGroups.json   [string]    1 to 45 chars
        Unique code to identify the Student Group
    academics [{
        Array of object:
        code string 1 to 45 chars
            Code of the Staff member
        role string 1 to 45 chars
            The code of the Role performed by the Staff member for the Activity or Booking
    }]
    tags                string      min:1 chars

```

tags.json	[string]	CSV list of tag names 1 to 255 chars A tag name
-----------	----------	---

}}

24.2 GET /exceptiongroup/{c}

Get one Exception Group

Get details for the Activities in the specified Exception Group

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the Activity

RESPONSE

STATUS CODE - 200: A JSON array of Activity objects

RESPONSE MODEL - application/json

```
[{
  optional          number    between 0 and 1
                        A boolean flag to notiy whether or not this activity may be skipped.
  sequence          number    When provided, the automatic scheduler must schedule exams with higher sequence
                                numbers after exams with lower sequence numbers
  fixedCampus       string    A unique indentifier for a Campus
  fixedBuilding     string    A unique indentifier for a Building
  code              string    min:1 chars
                        A unique identifier for the Activity
  capabilities      string    min:1 chars
                        CSV list of Capabilities
  coloc            string    1 to 120 chars
                        The unique name of the colocation this activity belongs to
  colocatedActivities [string] min:1 chars
                        A unique identifier for the Activity
  dayTemplate       string    1 to 45 chars
                        The name of the day template for the Activity
  departmentCode    string    1 to 255 chars
                        A unique identifier for the Department of the Module of the Activity
  description       undefined  Free-text description of the Activity
  duration          number    The duration of the Activity as a number of Slot
  events [{
    Array of object:
      uniqueId      string    Unique name to identify the Activity's event
      date          string    The date on which the Activity's event occurs
      startTime     string    The time at which the Activity's event starts
      endTime      string    The time at which the Activity's event ends
      activityDurationMins number The duration of the Activity in minutes
      week          number    The number of the week in the academic calendar counted from 1
    }]
  exceptions [{
    Array of object:
  }]
```


fixedDay	number	A number for the day of the week
fixedRooms	string	min:1 chars CSV list of Room Codes for the Activity's Fixed Rooms
fixedTime	number	The number of Slots between midnight and the Activity's Fixed (start) Time
friendlyName	string	1 to 255 chars Free-text alternative name for the Activity
moduleCode	string	1 to 255 chars A unique identifier for the Module to which the Activity belongs
moduleAltCode	string	1 to 64 chars A unique identifier for the Module to which the Activity belongs
name	string	1 to 100 chars Free-text name for the Activity
origin	string	If the Activity is an exception, then 'origin' is the code of the parent Activity
note	string	min:1 chars Free-text note for the Activity
offerAltCode	string	1 to 255 chars A unique identifier for the ModuleOffer to which the Activity belongs
offerName	string	1 to 255 chars The name of the Module Offer to which the Activity belongs
offer { The offer object this activity belongs to		
n	string	1 to 255 chars Offer code
m	string	1 to 255 chars Module code
altc	string	1 to 255 chars Offer alt code
groups [{ Array of object:		
gc	string	1 to 45 chars Unique code to identify the Student Group
gn	string	1 to 255 chars Name for the Student Group
goUrl	string	The URL for this group-offer mapping
}]		
tags [{ Array of object:		
n	string	
}]		
}		
planSize	number	The planned size (i.e. number of Students) for the Activity
ready	number	1 means the activity is ready, 0 means the activity is not ready
repeats [{ Array of object:		
}]		
repeatOf	string	If the Activity is a repeat, then 'repeatOf' is the code of the parent Activity
repeatOrigin	string	If the Activity is a repeat, then 'repeatOf' is the code of the ultimate ancestor Activity
scheduled	number	Boolean flag if the Activity is scheduled for at least one week, then 1. Otherwise 0
scheduledRooms	[string]	1 to 45 chars Unique code to identify the Room
size	number	The planned or actual size (i.e. number of Students) enrolled in the Activity
staff	string	min:1 chars CSV list of the Staff associated with the Activity
staff.json	[string]	1 to 45 chars Unique code to identify the Staff
staffObjects [{ Array of object:		
c	string	1 to 45 chars

```

        Unique code to identify the staff member
    n string 1 to 100 chars
        Name of the staff memver
    }]
    staffPublished      number      between 0 and 1
                                Boolean flag if the activity has been published to staff, then 1. If not published to staff, 0.
    studentPublished    number      between 0 and 1
                                Boolean flag if the activity has been published to students, then 1. If not published to staff, 0.
    studentGroups       string      min:1 chars
                                CSV list of the Student Groups enrolled in the Activity

    studentObjects [{
    Array of object:
        c string 1 to 255 chars
        Unique code to identify the student
        n string 1 to 255 chars
        Student name
    }]
    type                string      1 to 45 chars
                                The name of the Activity type
    user1               string      1 to 255 chars
                                A user-defined, free-text string.
    user2               string      1 to 255 chars
                                A user-defined, free-text string.
    user3               string      1 to 255 chars
                                A user-defined, free-text string.
    user4               string      1 to 255 chars
                                A user-defined, free-text string.
    user5               string      1 to 255 chars
                                A user-defined, free-text string.
    user6               string      1 to 255 chars
                                A user-defined, free-text string.
    user7               string      1 to 255 chars
                                A user-defined, free-text string.
    virtual             number      0 means the Activity is to be scheduled into a Room, 1 means the Activity is to be
                                scheduled into a time (but not a Room)
    meetingRequired     number      0 means the Activity does not require an online meeting, 1 means the Activity requires an
                                online meeting
    meetingUrl          string      1 to 65535 chars
                                The URL for the activity's online meeting
    timeframe           string      1 to 110 chars
                                The code of the Timeframe relative to which the weeks in the weekPattern must be
                                evaluated
    weekPattern         string      1 to 90 chars
                                The weeks (relative to the Timeframe) into which the Activity is to be scheduled
    isoweeks            string      min:6 chars
                                The weeks into which the Activity is to be scheduled formatted as ISO 8601
    capabilities.json   [string]    1 to 100 chars
                                Unique name to identify the capability
    fixedRooms.json     [string]    1 to 45 chars
                                Unique code to identify the Room
    studentGroups.json  [string]    1 to 45 chars
                                Unique code to identify the Student Group

    academics [{
    Array of object:
        code string 1 to 45 chars
        Code of the Staff member
        role string 1 to 45 chars
        The code of the Role performed by the Staff member for the Activity or Booking
    }]

```

tags	string	min:1 chars
tags.json	[string]	CSV list of tag names 1 to 255 chars
		A tag name

```
}]
```

25. REPORT

25.1 GET /report/room

Get Report of all Rooms

Returns a CSV friendly list (no nested objects) of room details and statistics. This list can be imported and viewed from Microsoft Excel.

REQUEST

REQUEST BODY - application/json

```
{
  buildings [{
    Array of object:
    b string building name
    c string Campus code
  }]
}
```

RESPONSE

STATUS CODE - 200: A rooms report object

RESPONSE MODEL - application/json

```
{
  code          string 1 to 45 chars
                  Unique code to identify the room
  name          string 1 to 255 chars
                  Room's name
  floor         string 1 to 45 chars
                  Name of the floor the room is on
  floorCode     string 1 to 45 chars
                  Code of the floor the room is on
  building      string 1 to 100 chars
                  Name of the building the room is in
  buildingCode  string 1 to 100 chars
                  Code of the building the room is in
  campus        string 1 to 100 chars
                  Name of the campus the room is in
  campusCode    string 1 to 100 chars
                  Code of the campus the room is in
  area          number >=0
                  Physical size of the room
  KgYr          number >=0
                  Value of carbon emissions in Kg per year
  notes         string 0 to 1000 chars
                  Free-text notes for the room
  department    string 1 to 255 chars
                  Unique code identifying the department the room belongs to
  superRoom     string 0 to 45 chars
                  Name of super room
  del           number between 0 and 1
                  Deletion flag. When 1, it indicates that the room is to be deleted in the future
  maxConcurrentExams number >=0
                  Number of maximum concurrent exams that can be scheduled in the room
  reservedCapacity number >=0
```

seatingPlan	string	min:0 chars	Room's reserved capacity
owner	string	0 to 100 chars	A CSV list of the room's seating plan
setUpTime	string	0 to 5 chars	Name of the room's owner
takeDownTime	string	0 to 5 chars	Room's set up time. Format: hh:mm
events	number	>=0	Room's take down time. Format: hh:mm
capacities	number	>=0	A count of all events for the room
capabilities	string	min:0 chars	Room's maximum capacities for each activity type. The number of these properties and their names will vary to match the activity types set in the config page.
specialReq	string	min:0 chars	A CSV list of room capabilities
users	string	min:0 chars	A CSV list of room's special requirements
usersWeekTemplates	string	min:0 chars	A CSV list of room's users
usersDayTemplates	string	min:0 chars	A CSV list of week templates set by room's users
pools	string	min:0 chars	A CSV list of day templates set by room's users
slotsYr	number	>=0	A CSV list of room pool names that the room belongs to
slotsAct	number	>=0	Max number of slots per academic year for the room
freqAct	string	min:0 chars	Number of slots with activities for the room, regardless of room availability
freqAll	string	min:0 chars	Percentage of slots with activities for the room, regardless of room availability
slotsActAvail	number	>=0	The percentage of the time during which the Room is being used for an Activity (or Exam) or Booking. Note that this count will include any Slots where the Room is unavailable
freqActAvail	string	min:0 chars	Number of slots with activities when the room is available
freqAllAvail	string	min:0 chars	Percentage of slots with activities when the room is available
slotsBook	number	>=0	The same as allFreq except that Slots where the Room is unavailable are not included
staffBook	number	>=0	Number of slots with bookings for the room, regardless of room availability
stuBook	number	>=0	Staff attendees for the slots with bookings for the room, regardless of room availability
slotsBookAvail	number	>=0	Student attendees for the slots with bookings for the room, regardless of room availability
bookAvailStaff	number	>=0	Number of slots with bookings when the room is available
bookAvailStu	number	>=0	Staff attendees for the slots with bookingswhen the room is available
occAct	string	min:0 chars	Student attendees for the slots with bookingswhen the room is available
occActAvail	string	min:0 chars	Room's occupancy percentage, regardless of room availability
slotsAll	number	>=0	Room's occupancy percentage when room is available
occAll	string	min:0 chars	Number of all slots for the room with at least one activity or booking in them

<code>occAllAvail</code>	<code>string</code>	<code>min:0 chars</code>	Room's total occupancy percentage, regardless of room availability
<code>utilAct</code>	<code>string</code>	<code>min:0 chars</code>	Room's total occupancy percentage when room is available
<code>utilActAvail</code>	<code>string</code>	<code>min:0 chars</code>	Calculated as the product of <code>freqAct</code> and <code>occAct</code>
<code>utilAll</code>	<code>string</code>	<code>min:0 chars</code>	Calculated as the product of <code>freqActAvail</code> and <code>occActAvail</code>
<code>utilAllAvail</code>	<code>string</code>	<code>min:0 chars</code>	Calculated as the product of <code>freqAll</code> and <code>occAll</code>
<code>maxCap</code>	<code>number</code>	<code>>=0</code>	Calculated as the product of <code>freqAllAvail</code> and <code>utilAllAvail</code>
<code>maxCapYr</code>	<code>number</code>	<code>>=0</code>	Largest capacity for each of the room's section categories
<code>slotsUnavail</code>	<code>number</code>	<code>>=0</code>	Largest capacity for each of the room's section categories per year
			Room Unavailabilities

}

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

25.2 GET /report/booking

Get Report of all Bookings

Returns a CSV friendly list (no nested objects) of room bookings. This list can be imported and viewed from Microsoft Excel.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A rooms report object

RESPONSE MODEL - application/json

```
{
  id          number  >=1
                                     Unique number identifying the room booking on the database. Cannot be set.
  code        string  1 to 255 chars
                                     Unique string identifying the room booking on the database. Can be set by the user.
  description  string  0 to 200 chars
                                     A description of the room booking
  bookingType string  0 to 5 chars
                                     A unique code to identify the type of the room booking
  state        string  "Approval status of the room booking. Values: Pending, Approved, Declined"
  reason       string  0 to 1000 chars
                                     Reason why the room booking was declined
  numberAttending number >=0
                                     Number of attendees
  rooms        string  min:1 chars
                                     CSV list of room codes for the activity's rooms
  area         number  >=0
                                     Total area of room booking's rooms in square meters
  Kg/yr        number  >=0
                                     Total carbon emissions of the room booking's rooms in kilograms per year
  day          string  min:1 chars
                                     A CSV list of days for the room booking
  time         string  The time of the booking. Format: hh:mm
}
```

endTime	string	The end time of the booking. Format: hh:mm
du	string	The duration of the room booking. Format: hh:mm
weeks	string	1 to 90 chars CSV list of weeks that the room booking is scheduled. Format: YYYY-Www
owner	string	max:255 chars Staff or student code for the owner of the room booking
owntype	string	max:45 chars A string indicating whether the owner is a staff member, a student or a full fat user
contactDetails	string	0 to 120 chars Contact details for the owner/creator of the room booking
createdAt	string	Date and time the room booking was created. Format: YYYY-MM-DD HH:MM:SS
updatedAt	string	Date and time the room booking was updated. Format: YYYY-MM-DD HH:MM:SS
department	string	1 to 255 chars A unique identifier for the Department of the room booking
moduleOffer	string	min:0 chars Module offer of the room booking
staff	string	0 to 45 chars CSV list of attending staff members' codes
student	string	0 to 255 chars CSV list of attending students' codes
capabilities	string	CSV list of room booking capabilities
relatedBookings	string	min:0 chars Related bookings (set ups and take downs)
parentBooking	string	min:0 chars Parent booking of set up or take down bookings
notes	string	min:0 chars Free-text note for the room booking
user1	string	0 to 60 chars User-definable field 1
user2	string	0 to 60 chars User-definable field 2
user3	string	0 to 60 chars User-definable field 3
user4	string	0 to 60 chars User-definable field 4

}

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

26. ROOM

26.1 GET /rooms

Get all Rooms

Return JSON array of all Room objects

REQUEST

REQUEST BODY - application/json

```
{
  buildings [{
    Array of object:
    b string building name
    c string Campus code
  }]
}
```

RESPONSE

STATUS CODE - 200: A JSON array of Room objects

RESPONSE MODEL - application/json

```
[{
  Array of object:
  c string 1 to 45 chars
    Code
  n string 1 to 255 chars
    Name
  d {
    c string 1 to 255 chars
      Unique code to identify the Department or OU
    n string 1 to 255 chars
      Unique name to identify the Department
  }
  f {
    n string 1 to 45 chars
      Name
    fc string 1 to 45 chars
      Floor code
    b string 1 to 45 chars
      Name
    bc string 1 to 45 chars
      Code for the Building
    c string 1 to 45 chars
      Name
    cc string 1 to 45 chars
      Code for the Campus
  }
  rc [{
    Array of object:
    type string Activity type name
    code string Activity type code
    cap integer Room capacity for activity type
  }]
  pool string min:1 chars
```

```

user1          string      CSV list of room pools the room belongs to
                                0 to 60 chars
user2          string      DEPRECATED and to be replaced by 'userFields'
                                0 to 60 chars
user3          string      DEPRECATED and to be replaced by 'userFields'
                                0 to 60 chars
blockedRooms   [string]    DEPRECATED and to be replaced by 'userFields'
                                1 to 45 chars
userFields [{
  Array of object:
    index number >=1
                                User field number
    value string Value stored in the user field
    type string  A description of the type of the value
    min  number  optional, minimum value (applied to user fields of type 'int')
    max  number  optional, maximum value (applied to user fields of type 'int')
}]
capabilities    string      min:0 chars
                                A CSV list of room capabilities
capabilities.json [string]  1 to 100 chars
                                Unique name to identify the capability
sr              string      min:0 chars
                                A CSV list of room's special requirements
toDelete        integer     between 0 and 1
                                1 if Room is marked for deletion, otherwise 0
}]

```

26.2 GET /room/{c}

Get one Room

Get details for one Room

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Unique code to identify the room

RESPONSE

STATUS CODE - 200: A Room object

RESPONSE MODEL - application/json

```

{
  c          string      1 to 45 chars
                                Code
  n          string      1 to 255 chars
                                Name
  d {
    c string 1 to 255 chars
                                Unique code to identify the Department or OU
    n string 1 to 255 chars
                                Unique name to identify the Department
  }
}

```

```

f {
  n  string 1 to 45 chars
      Name
  fc string 1 to 45 chars
      Floor code
  b  string 1 to 45 chars
      Name
  bc string 1 to 45 chars
      Code for the Building
  c  string 1 to 45 chars
      Name
  cc string 1 to 45 chars
      Code for the Campus
}
rc [{
  Array of object:
    type string Activity type name
    code string Activity type code
    cap  integer Room capacity for activity type
}]
pool          string      min:1 chars
              CSV list of room pools the room belongs to
user1         string      0 to 60 chars
              DEPRECATED and to be replaced by 'userFields'
user2         string      0 to 60 chars
              DEPRECATED and to be replaced by 'userFields'
user3         string      0 to 60 chars
              DEPRECATED and to be replaced by 'userFields'
blockedRooms  [string]    1 to 45 chars
              Unique code to identify the Room

userFields [{
  Array of object:
    index number >=1
              User field number
    value string Value stored in the user field
    type  string A description of the type of the value
    min   number optional, minimum value (applied to user fields of type 'int')
    max   number optional, maximum value (applied to user fields of type 'int')
}]
capabilities  string      min:0 chars
              A CSV list of room capabilities
capabilities.json [string] 1 to 100 chars
              Unique name to identify the capability
sr            string      min:0 chars
              A CSV list of room's special requirements
toDelete     integer      between 0 and 1
              1 if Room is marked for deletion, otherwise 0
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
              Error codes:
              * `100` - Bad API key, e.g. too short or malformed
              * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
              * `102` - Missing mandatory parameter
              * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
              presence of another parameter

```

- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

26.3 PUT /room/{c}

Update a Room

Update an existing Room

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Unique code to identify the room

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
n	string 1 to 100 chars	Full name
f	string 1 to 45 chars	Identifying name for a floor
b	string 1 to 45 chars	Identifying name for a building
dn	string 1 to 255 chars	Department Code
cam	string 1 to 45 chars	Identifying name for a campus
capabilities	string	CSV list (or JSON array) of names of Capabilities. If you send a Capability that is not already in TermTime then TermTime will create a new Capability.
sr	string min:1 chars	CSV list (or JSON array) of names of special requirements
notes	string min:1 chars	Free-text notes
user1	string 0 to 60 chars	User-definable field 1
user2	string 0 to 60 chars	User-definable field 2
user3	string 0 to 60 chars	User-definable field 3
td	number between 0 and 1	To be used and set to 1 when the object is to be marked for deletion

REQUEST BODY - application/json

```
[{  
  Array of object: Object to pass capacities with in the body of the request  
  code string Activity type code  
  val integer The user required value for the room capacity of the activity type  
}]
```

RESPONSE

STATUS CODE - 200: Success - the Room was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```
    message* string
}
```

26.4 POST /room/{c}

Create a Room

Create a new Room

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Unique code to identify the room

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 45 chars	Room name
*f	string 1 to 45 chars	Identifying name for a floor
*b	string 1 to 45 chars	Identifying name for a building
*cam	string 1 to 45 chars	Identifying name for a campus
*dc	string 1 to 255 chars	Department Code
capabilities	string	CSV list (or JSON array) of names of Capabilities. If you send a Capability that is not already in TermTime then TermTime will create a new Capability.
sr	string min:1 chars	CSV list (or JSON array) of names of special requirements
notes	string min:1 chars	Free-text notes
user1	string 0 to 60 chars	User-definable field 1
user2	string 0 to 60 chars	User-definable field 2
user3	string 0 to 60 chars	User-definable field 3

REQUEST BODY - application/json

```
[{
```

Array of object: Object to pass capacities with in the body of the request


```

code string    Activity type code
val  integer   The user required value for the room capacity of the activity type
}]

```

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```

{
  code*    enum    ALLOWED:0
  message* string
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found
                                in the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found
                                in the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{

```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found
in the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

26.5 DELETE /room/{c}

Delete a Room

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Unique code to identify the room

RESPONSE

STATUS CODE - 200: Success - the Room was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{

```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

27. ROOM BOOKING

27.1 GET /roombookings

Get all room bookings

Get the list of all room bookings

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of room bookings

RESPONSE MODEL - application/json

[{ Array of object:			
id	number	>=1	Unique number identifying the room booking on the database. Cannot be set.
code	string	1 to 255 chars	Unique string identifying the room booking on the database. Can be set by the user.
des	string	0 to 200 chars	A description of the room booking
type	string	0 to 5 chars	A unique code to identify the type of the room booking
state	string	"Approval status of the room booking. Values: Pending, Approved, Declined"	
reason	string	0 to 1000 chars	Reason why the room booking was declined
cap	number	>=0	Number of attendees
rooms	string	min:1 chars	CSV list of room codes for the activity's rooms
rooms.json	[string]	1 to 45 chars	Unique code to identify the Room
blockedRooms	[string]	1 to 45 chars	Unique code to identify the Room
days	string	min:1 chars	A CSV list of days for the room booking
time	string	The time of the booking. Format: hh:mm	
du	string	The duration of the room booking. Format: hh:mm	
weeks	string	1 to 90 chars	CSV list of weeks that the room booking is scheduled. Format: YYYY-Wwww
owner	string	max:255 chars	Staff or student code for the owner of the room booking
owntype	string	max:45 chars	A string indicating whether the owner is a staff member, a student or a full fat user
contact	string	0 to 120 chars	Contact details for the owner/creator of the room booking
created	string	Date and time the room booking was created. Format: YYYY-MM-DD HH:MM:SS	
updated	string	Date and time the room booking was updated. Format: YYYY-MM-DD HH:MM:SS	
dep	string	1 to 255 chars	A unique identifier for the Department of the room booking
offer {			
n	string	The Offer name (present if userOfferAltc is not set)	
m	string	The module code (present if userOfferAltc is not set)	
altc	string	The Alt Code for the Offer (present if userOfferAltc is set)	

```

}
staff      string    0 to 45 chars
              CSV list of attending staff members' codes
staff.json [string]  1 to 45 chars
              Unique code to identify the Staff
student    string    0 to 255 chars
              CSV list of attending students' codes
student.json [string] 1 to 60 chars
              Unique code to identify the student
rel        string    min:0 chars
              Related bookings (set ups and take downs)
parent     string    min:0 chars
              Parent booking of set up or take down bookings
note       string    min:0 chars
              Free-text note for the room booking
user1      string    0 to 60 chars
              User-definable field 1
user2      string    0 to 60 chars
              User-definable field 2
user3      string    0 to 60 chars
              User-definable field 3
user4      string    0 to 60 chars
              User-definable field 4
}]]

```

27.2 GET /roombooking/{c}

Get one Room Booking

Get details for one room booking

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	number ≥1	Unique code to identify the room booking. Can either be internal id or code if queryBy parameter is sent.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
queryBy	string	When present, the user can define which field to query by. Accepted values: id, code, Default value: id

RESPONSE

STATUS CODE - 200: A room booking object

RESPONSE MODEL - application/json

```

{
  id          number    ≥1
                Unique number identifying the room booking on the database. Cannot be set.
  code        string    1 to 255 chars
                Unique string identifying the room booking on the database. Can be set by the user.
  des         string    0 to 200 chars
                A description of the room booking

```

type	string	0 to 5 chars A unique code to identify the type of the room booking
state	string	"Approval status of the room booking. Values: Pending, Approved, Declined"
reason	string	0 to 1000 chars Reason why the room booking was declined
cap	number	>=0 Number of attendees
rooms	string	min:1 chars CSV list of room codes for the activity's rooms
rooms.json	[string]	1 to 45 chars Unique code to identify the Room
blockedRooms	[string]	1 to 45 chars Unique code to identify the Room
days	string	min:1 chars A CSV list of days for the room booking
time	string	The time of the booking. Format: hh:mm
du	string	The duration of the room booking. Format: hh:mm
weeks	string	1 to 90 chars CSV list of weeks that the room booking is scheduled. Format: YYYY-Www
owner	string	max:255 chars Staff or student code for the owner of the room booking
owntype	string	max:45 chars A string indicating whether the owner is a staff member, a student or a full fat user
contact	string	0 to 120 chars Contact details for the owner/creator of the room booking
created	string	Date and time the room booking was created. Format: YYYY-MM-DD HH:MM:SS
updated	string	Date and time the room booking was updated. Format: YYYY-MM-DD HH:MM:SS
dep	string	1 to 255 chars A unique identifier for the Department of the room booking
offer {		
n	string	The Offer name (present if userOfferAltc is not set)
m	string	The module code (present if userOfferAltc is not set)
altc	string	The Alt Code for the Offer (present if userOfferAltc is set)
}		
staff	string	0 to 45 chars CSV list of attending staff members' codes
staff.json	[string]	1 to 45 chars Unique code to identify the Staff
student	string	0 to 255 chars CSV list of attending students' codes
student.json	[string]	1 to 60 chars Unique code to identify the student
rel	string	min:0 chars Related bookings (set ups and take downs)
parent	string	min:0 chars Parent booking of set up or take down bookings
note	string	min:0 chars Free-text note for the room booking
user1	string	0 to 60 chars User-definable field 1
user2	string	0 to 60 chars User-definable field 2
user3	string	0 to 60 chars User-definable field 3
user4	string	0 to 60 chars User-definable field 4
}		

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

27.3 PUT /roombooking/{c}

Update a Room Booking

Update an existing room booking

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	number ≥1	Unique code to identify the room booking. Can either be internal id or code if queryBy parameter is sent.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
queryBy	string	When present, the user can define which field to query by. Accepted values: id, code, Default value: id
des	string 0 to 200 chars	A description of the room booking
day	string	A list of numbers representing the days of the week for the room booking
time	string	The time of the booking. Format: hh:mm
du	string	The duration of the room booking. Format: hh:mm
pat	string 1 to 90 chars	CSV list of weeks that the room booking is scheduled. Format: YYYY-Www
owner	string max:255 chars	Staff or student code for the owner of the room booking
contact	string max:255 chars	Contact details for the room booking owner
cap	number ≥0	Number of attendees
rooms	string min:1 chars	CSV list of room codes for the activity's rooms
type	string 0 to 5 chars	A unique code to identify the type of the room booking
staff	string 0 to 45 chars	CSV list of attending staff members' codes
stu	string 0 to 255 chars	CSV list of attending students' codes
o	string 1 to 255 chars	Name to identify the offer
cq	string 1 to 50 chars	Unique code to identify the module
altc	string 1 to 255 chars	Unique alternative code to identify the module offer
useOfferAltC	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer
notes	string min:1 chars	Free-text notes

NAME	TYPE	DESCRIPTION
user1	string 0 to 60 chars	User-definable field 1
user2	string 0 to 60 chars	User-definable field 2
user3	string 0 to 60 chars	User-definable field 3
user4	string 0 to 60 chars	User-definable field 4

RESPONSE

STATUS CODE - 200: Success - the room booking was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

27.4 POST /roombooking/{c}

Create a Room Booking

Create a new room booking

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string min:1 chars	Unique code to identify the room booking. Can only be externalId

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*des	string 0 to 200 chars	A description of the room booking
*day	string	A list of numbers representing the days of the week for the room booking
*time	string	The time of the booking. Format: hh:mm
*du	string	The duration of the room booking. Format: hh:mm
*pat	string 1 to 90 chars	CSV list of weeks that the room booking is scheduled. Format: YYYY-Www
*owner	string max:255 chars	Staff or student code for the owner of the room booking
contact	string max:255 chars	Contact details for the room booking owner
state	number between 0 and 1	"Approval status" flag of the room booking. Values: 0 = Approved, 1 = Pending"
cap	number >=0	Number of attendees
rooms	string min:1 chars	CSV list of room codes for the activity's rooms
type	string 0 to 5 chars	A unique code to identify the type of the room booking

NAME	TYPE	DESCRIPTION
staff	string 0 to 45 chars	CSV list of attending staff members' codes
stu	string 0 to 255 chars	CSV list of attending students' codes
o	string 1 to 255 chars	Name to identify the offer
cq	string 1 to 50 chars	Unique code to identify the module
altc	string 1 to 255 chars	Unique alternative code to identify the module offer
useOfferAltC	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer
notes	string min:1 chars	Free-text notes
user1	string 0 to 60 chars	User-definable field 1
user2	string 0 to 60 chars	User-definable field 2
user3	string 0 to 60 chars	User-definable field 3
user4	string 0 to 60 chars	User-definable field 4

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

27.5 DELETE /roombooking/{c}

Delete a Room Booking

Delete an existing room booking

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	number ≥1	Unique code to identify the room booking. Can either be internal id or code if queryBy parameter is sent.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
queryBy	string	When present, the user can define which field to query by. Accepted values: id, code, Default value: id

RESPONSE

STATUS CODE - 200: Success - the room booking was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
```

* `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string  
}
```

28. ROOM RELATIONSHIP

28.1 GET /roomrelationships

Get all the room relationships

Returns JSON array of room relationship objects

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of room relationship objects

RESPONSE MODEL - application/json

```
[{  
  name string 1 to 255 chars  
    Unique name for the Room Relationship  
  type string 1 to 255 chars  
    A user-defined type for the Room Relationship  
  blockedRooms [{  
    Array of object:  
  }]  
}]
```

28.2 GET /roomrelationship/{c}

Get one room relationship

Returns a room relationship object

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	A unique name to identify the Room Relationship

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
type	string 1 to 255 chars	A user-defined type for the Room Relationship

RESPONSE

STATUS CODE - 200: A room relationship object

RESPONSE MODEL - application/json

```
{  
  name string 1 to 255 chars  
    Unique name for the Room Relationship
```

```

type string 1 to 255 chars
    A user-defined type for the Room Relationship
blockedRooms [{
    Array of object:
}]
}

```

28.3 POST /roomrelationship/{c}

Create a room relationship

Create a new room relationship

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	A unique name to identify the Room Relationship

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
type	string 1 to 255 chars	A user-defined type for the Room Relationship

REQUEST BODY - application/json

```

{
  rooms [string] 1 to 45 chars
    Unique code to identify the Room
  blockedRooms [{
    Array of object:
  }]
}

```

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:0
  message*   string
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
    Error codes:
    * `100` - Bad API key, e.g. too short or malformed
    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
    * `102` - Missing mandatory parameter
    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
    presence of another parameter
    * `104` - No database found, may occur when a given database has not been loaded onto a test server
    * `105` - Internal server error, a catch-all for unexpected errors
}

```


- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

28.4 DELETE /roomrelationship/{c}

Delete a room relationship

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	A unique name to identify the Room Relationship

RESPONSE

STATUS CODE - 200: Success - the room relationship was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
```

* `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string  
}
```

29. SCHEDULE

29.1 GET /schedule/rooms

Get the schedule for all rooms

Returns JSON array of Offer objects

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
start	string 10 to 10 chars	Start date in YYYY-MM-DD format
*days	integer	Number of days (from 1 up to 366)
notes	integer between 0 and 1	1 to return notes, defaults to 0

RESPONSE

STATUS CODE - 200: A JSON array of Event objects

RESPONSE MODEL - application/json

```
[{  
  Array of object:  
    roomcode      string      1 to 45 chars  
                                Code for room  
    roomname      string      1 to 45 chars  
                                Name of room  
    buildingname  string      1 to 45 chars  
                                Name of building  
    activities [{  
      Array of object:  
        id        string      Activity-NNN or Booking-NNN where NNN is unique for all activities or bookings as appropriate  
        name      string      Activity name or booking description as appropriate  
        start     string      Datetime (YYYY-MM-DD HH:MM:00) at which the activity or bookings starts  
        end       string      Datetime (YYYY-MM-DD HH:MM:00) at which the activity or bookings ends  
        type      string      Activity type or booking type  
        instance  integer      Activities or bookings that repeat for several weeks are given instance numbers 1, 2, 3, ...  
        note      string      An optional free-text note field for the activity or booking  
      }]  
    }]  
}]
```

29.2 GET /schedule/room/null

Get the schedule for virtual activities

Returns JSON array of Event objects

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
start	string 10 to 10 chars	Start date in YYYY-MM-DD format
*days	integer	Number of days (from 1 up to 366)
notes	integer between 0 and 1	1 to return notes, defaults to 0

RESPONSE

STATUS CODE - 200: A JSON array of Event objects

RESPONSE MODEL - application/json

```
[{
  Array of object:
    roomcode          string          1 to 45 chars
                                Code for room
    roomname          string          1 to 45 chars
                                Name of room
    buildingname      string          1 to 45 chars
                                Name of building
    activities [{
      Array of object:
        id            string          Activity-NNN or Booking-NNN where NNN is unique for all activities or bookings as appropriate
        name          string          Activity name or booking description as appropriate
        start         string          Datetime (YYYY-MM-DD HH:MM:00) at which the activity or bookings starts
        end           string          Datetime (YYYY-MM-DD HH:MM:00) at which the activity or bookings ends
        type          string          Activity type or booking type
        instance      integer         Activities or bookings that repeat for several weeks are given instance numbers 1, 2, 3, ...
        note          string          An optional free-text note field for the activity or booking
      }]
    }]
}]
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

29.3 GET /schedule/room/{c}

Get the schedule for a room

Returns JSON array of Event objects

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Unique code to identify the room

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
start	string 10 to 10 chars	Start date in YYYY-MM-DD format
*days	integer	Number of days (from 1 up to 366)

NAME	TYPE	DESCRIPTION
notes	integer between 0 and 1	1 to return notes, defaults to 0

RESPONSE

STATUS CODE - 200: A JSON array of Event objects

RESPONSE MODEL - application/json

```
[{
  Array of object:
    roomcode      string      1 to 45 chars
                                Code for room
    roomname      string      1 to 45 chars
                                Name of room
    buildingname  string      1 to 45 chars
                                Name of building

    activities [{
      Array of object:
        id        string      Activity-NNN or Booking-NNN where NNN is unique for all activities or bookings as appropriate
        name      string      Activity name or booking description as appropriate
        start     string      Datetime (YYYY-MM-DD HH:MM:00) at which the activity or bookings starts
        end       string      Datetime (YYYY-MM-DD HH:MM:00) at which the activity or bookings ends
        type      string      Activity type or booking type
        instance  integer      Activities or bookings that repeat for several weeks are given instance numbers 1, 2, 3, ...
        note      string      An optional free-text note field for the activity or booking
      }]
    }]
}]
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
```

- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```

message* string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

30. STAFF

30.1 GET /staff

Get all Staff

Return JSON array of all Staff members

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useOfferAlt	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer
filterBy	string 0 to 255 chars	<p>The name of one object property to filter by.</p> <p>Used in conjunction with the parameter "filterValue" to filter the query. Specifies which property the passed filter value is in. Both parameters must be passed with a valid value in order to filter the query. Currently only supports filtering by User defined fields.</p>
filterValue	string 0 to 255 chars	<p>The value to filter by.</p> <p>Used in conjunction with the parameter "filterBy" to filter the query. Specifies which value to look for in the property specified by "filterBy". Both parameters must be passed with a valid value in order to filter the query. Currently only supports filtering by User defined fields.</p> <p>If the field is a user field set up with enumeration values, the value passed to this parameter will be looked up in the values of the field's enumerations. For example, if User1 is an enumerations field and student A has User1="val1,val2", passing the value "val1" to this parameter will return student A. Otherwise, the lookup is done by exact string matching. This means that to return student A of the previous example, the string "val1,val2" must be passed if the User1 field is just plain text.</p>

RESPONSE

STATUS CODE - 200: A JSON array of Staff objects

RESPONSE MODEL - application/json

```
[{
```

Array of object:

c	string	1 to 45 chars	Unique code to identify the Staff
n	string	1 to 100 chars	Full name
e1	string	1 to 600 chars	Email address, primary
e2	string	1 to 600 chars	Email address, backup
mob	string	1 to 30 chars	Mobile phone number
dc	string	1 to 255 chars	Department Code
dn	string	1 to 255 chars	Department Name
nh	number	between 0 and 9999	

nha	number	Nominal hours for the year between -999 and 999
pn	string	Nominal hours adjustment 1 to 60 chars
td	integer	Principal name for SSO between 0 and 1
rbda	integer	To Delete flag between 0 and 999
rbpw	integer	Number of days advance a booking can be made between 0 and 999
rbpd	integer	Max number of hours per week that could be booked between 0 and 999
rbmb	integer	Max number of hours per day that could be booked between 0 and 999
rbmg	integer	Max single booking between 0 and 999
rbrp	string	Minimum gap between bookings 1 to 65 chars
isalso	string	Room booking room pool 1 to 60 chars
roles	string	Unique code to identify Student iff Staff is also a Student 1 to 600 chars
staffGroups	string	List of all the Roles a Staff Member has 1 to 600 chars
offers	[{	List of all the Staff Groups a Staff Member is a member of
	Array of object:	
n	string	The Offer name (present if userOfferAltc is not set)
m	string	The module code (present if userOfferAltc is not set)
altc	string	The Alt Code for the Offer (present if userOfferAltc is set)
	}]	
modulesScheduled	[{	
	Array of object:	
n	string	The Offer name (present if userOfferAltc is not set)
m	string	The module code (present if userOfferAltc is not set)
altc	string	The Alt Code for the Offer (present if userOfferAltc is set)
	}]	
altc	string	0 to 255 chars
		Alternative unique code to identify the staff member
user1	string	0 to 60 chars
		User-definable field 1
user2	string	0 to 60 chars
		User-definable field 2
user3	string	0 to 60 chars
		User-definable field 3
user4	string	0 to 60 chars
		User-definable field 4
user5	string	0 to 60 chars
		User-definable field 5

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
}
```

- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

30.2 GET /staff/{c}

Get one Staff

Return object of staff details.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Code to identify a Staff member uniquely

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAlt	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: A Staff object

RESPONSE MODEL - application/json

```
{
  c          string  1 to 45 chars
              Unique code to identify the Staff
  n          string  1 to 100 chars
              Full name
  e1         string  1 to 600 chars
              Email address, primary
  e2         string  1 to 600 chars
              Email address, backup
  mob        string  1 to 30 chars
              Mobile phone number
  dc         string  1 to 255 chars
              Department Code
  dn         string  1 to 255 chars
              Department Name
  nh         number  between 0 and 9999
              Nominal hours for the year
  nha        number  between -999 and 999
              Nominal hours adjustment
  pn         string  1 to 60 chars
              Principal name for SSO
  td         integer between 0 and 1
              To Delete flag
  rbda       integer between 0 and 999
              Number of days advance a booking can be made
  rbpw       integer between 0 and 999
              Max number of hours per week that could be booked
  rbpd       integer between 0 and 999
              Max number of hours per day that could be booked
  rbmb       integer between 0 and 999
              Max single booking
  rbmg       integer between 0 and 999
              Minimum gap between bookings
  rbrp       string  1 to 65 chars
              Room booking room pool
  isalso     string  1 to 60 chars
              Unique code to identify Student iff Staff is also a Student
  roles      string  1 to 600 chars
```

```

staffGroups string 1 to 600 chars
List of all the Roles a Staff Member has

offers [{
Array of object:
  n string The Offer name (present if userOfferAltc is not set)
  m string The module code (present if userOfferAltc is not set)
  altc string The Alt Code for the Offer (present if userOfferAltc is set)
}]
modulesScheduled [{
Array of object:
  n string The Offer name (present if userOfferAltc is not set)
  m string The module code (present if userOfferAltc is not set)
  altc string The Alt Code for the Offer (present if userOfferAltc is set)
}]
altc string 0 to 255 chars
Alternative unique code to identify the staff member

user1 string 0 to 60 chars
User-definable field 1

user2 string 0 to 60 chars
User-definable field 2

user3 string 0 to 60 chars
User-definable field 3

user4 string 0 to 60 chars
User-definable field 4

user5 string 0 to 60 chars
User-definable field 5
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code* enum ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code* enum ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter

```

- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

30.3 PUT /staff/{c}

Update Staff member

Update the details of an existing staff member

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Code to identify a Staff member uniquely

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
altC	string 1 to 255 chars	Unique alternative code to identify the staff member
n	string 1 to 100 chars	Full name
pn	string 1 to 60 chars	Principal name for SSO

NAME	TYPE	DESCRIPTION
e1	string 1 to 600 chars	Email address, primary
e2	string 1 to 600 chars	Email address, backup
mob	string 1 to 30 chars	Mobile phone number
dc	string 1 to 255 chars	Department Code
nh	number	Nominal hours for the year
nha	number between 0 and 9999	Adjustment to nominal hours
rbda	integer between 0 and 999	Deprecated. Set in room booking profiles. Number of days advance a booking can be made
rbpw	integer between 0 and 999	Deprecated. Set in room booking profiles. Max number of hours per week that could be booked
rbpd	integer between 0 and 999	Deprecated. Set in room booking profiles. Max number of hours per day that could be booked
rbmb	integer between 0 and 999	Deprecated. Set in room booking profiles. Max single booking
rbmg	integer between 0 and 999	Deprecated. Set in room booking profiles. Minimum gap between bookings
rbrp	string 1 to 65 chars	Deprecated. Set in room booking profiles. Room pool for bookings
ias	string 1 to 60 chars	Unique code to identify Student if Staff is also a Student
td	integer between 0 and 1	To Delete flag
sc	string 1 to 45 chars	Code to update identify of Staff member
roles	string min:1 chars	A comma separated list of roles codes to add the new staff into
staffGroups	string min:1 chars	A comma separated list of staff groups codes to add the new staff into
user1	string 0 to 60 chars	User-definable field 1
user2	string 0 to 60 chars	User-definable field 2
user3	string 0 to 60 chars	User-definable field 3
user4	string 0 to 60 chars	User-definable field 4
user5	string 0 to 60 chars	User-definable field 5

30.4 POST /staff/{c}

Create a new Staff

Create member of staff with parameters in the query.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Code to identify a Staff member uniquely

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
altc	string 1 to 255 chars	Unique alternative code to identify the staff member
*n	string 1 to 100 chars	Full name
pn	string 1 to 60 chars	Principal name for SSO
e1	string 1 to 600 chars	Email address, primary
e2	string 1 to 600 chars	Email address, backup
mob	string 1 to 30 chars	Mobile phone number
*dc	string 1 to 255 chars	Department Code
nh	number	Nominal hours for the year
nha	number between 0 and 9999	Adjustment to nominal hours
rbda	integer between 0 and 999	Deprecated. Set in room booking profiles. Number of days advance a booking can be made
rbpw	integer between 0 and 999	Deprecated. Set in room booking profiles. Max number of hours per week that could be booked
rbpd	integer between 0 and 999	Deprecated. Set in room booking profiles. Max number of hours per day that could be booked
rbmb	integer between 0 and 999	Deprecated. Set in room booking profiles. Max single booking
rbmg	integer between 0 and 999	Deprecated. Set in room booking profiles. Minimum gap between bookings
rbrp	string 1 to 65 chars	Deprecated. Set in room booking profiles. Room pool for bookings

NAME	TYPE	DESCRIPTION
ias	string 1 to 60 chars	Unique code to identify Student if Staff is also a Student
roles	string min:1 chars	A comma separated list of roles codes to add the new staff into
staffGroups	string min:1 chars	A comma separated list of staff groups codes to add the new staff into
user1	string 0 to 60 chars	User-definable field 1
user2	string 0 to 60 chars	User-definable field 2
user3	string 0 to 60 chars	User-definable field 3
user4	string 0 to 60 chars	User-definable field 4
user5	string 0 to 60 chars	User-definable field 5

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
```

- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

30.5 DELETE /staff/{c}

Delete Staff member

Delete a member of the staff

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Code to identify a Staff member uniquely

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
softDelete	number between 0 and 1	1 means if the Staff is mapped to any Courses, Modules, Module Offers, Activities, Exams or Bookings then set the 'to delete' flag on Staff (and don't actually delete the Staff from the database)

RESPONSE

STATUS CODE - 200: Success - the Staff was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
              Error codes:
              * `100` - Bad API key, e.g. too short or malformed
              * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
              * `102` - Missing mandatory parameter
              * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
              presence of another parameter
              * `104` - No database found, may occur when a given database has not been loaded onto a test server
              * `105` - Internal server error, a catch-all for unexpected errors
              * `106` - No object found, i.e. the request contains a code that references no object in the database
              * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
              database
              * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
              the query parameters
              * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
              * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
              Department(s)
              * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
              Error codes:
              * `100` - Bad API key, e.g. too short or malformed
              * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
              * `102` - Missing mandatory parameter
              * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
              presence of another parameter
              * `104` - No database found, may occur when a given database has not been loaded onto a test server
              * `105` - Internal server error, a catch-all for unexpected errors
              * `106` - No object found, i.e. the request contains a code that references no object in the database
              * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
              database
              * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
              the query parameters
              * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
              * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
              Department(s)
              * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
              Error codes:
              * `100` - Bad API key, e.g. too short or malformed
              * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
              * `102` - Missing mandatory parameter
              * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
              presence of another parameter
              * `104` - No database found, may occur when a given database has not been loaded onto a test server
              * `105` - Internal server error, a catch-all for unexpected errors
              * `106` - No object found, i.e. the request contains a code that references no object in the database
              * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
              database
              * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
```

the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

30.6 POST /staff/{c}/activity/{ac}

Add Staff member to Activity

Associate the identified Staff with the identified Activity using the specified Role

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Code to identify a Staff member uniquely
*ac	string 1 to 255 chars	Unique code to identify the Activity

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
useUser2	number between 0 and 1	To be used when the User2 field code is used to identify the underlying object
role	string 1 to 45 chars	Unique code to identify the Role

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
}
```

Error codes:
 * `100` - Bad API key, e.g. too short or malformed
 * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
 * `102` - Missing mandatory parameter
 * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
 * `104` - No database found, may occur when a given database has not been loaded onto a test server
 * `105` - Internal server error, a catch-all for unexpected errors
 * `106` - No object found, i.e. the request contains a code that references no object in the database
 * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
 * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in

the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

30.7 DELETE /staff/{c}/activity/{ac}

Delete Staff member from Activity

Disassociate the identified Staff from the identified Activity

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Code to identify a Staff member uniquely
*ac	string 1 to 255 chars	Unique code to identify the Activity

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
useUser2	number between 0 and 1	To be used when the User2 field code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: Success - the Staff and Activity were disassociated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```
    message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

31. STAFF GROUP

31.1 GET /staffgroups

get all staff groups

Get a list of all staff groups and some of their details

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of StaffGroup objects

RESPONSE MODEL - application/json

```
[ {  
  Array of object:  
    name      string  
    code      string  
    roleType  string  
  } ]
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{  
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
  Error codes:  
  * `100` - Bad API key, e.g. too short or malformed  
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys  
  * `102` - Missing mandatory parameter  
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the  
  presence of another parameter  
  * `104` - No database found, may occur when a given database has not been loaded onto a test server  
  * `105` - Internal server error, a catch-all for unexpected errors  
  * `106` - No object found, i.e. the request contains a code that references no object in the database  
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the  
  database  
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in  
  the query parameters  
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed  
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant  
  Department(s)  
  * `114` - Object in use - e.g., Student groups are linked to Activities  
  message*  string  
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{  
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
  Error codes:  
  * `100` - Bad API key, e.g. too short or malformed  
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys  
  * `102` - Missing mandatory parameter  
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the  
  presence of another parameter  
  * `104` - No database found, may occur when a given database has not been loaded onto a test server  
  * `105` - Internal server error, a catch-all for unexpected errors  
  * `106` - No object found, i.e. the request contains a code that references no object in the database  
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the  
  database
```


- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

31.2 GET /staffgroup/{c}

get a staff group

get a staff group object with some details

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Staff Group code

RESPONSE

STATUS CODE - 200: A JSON array of StaffGroup objects

RESPONSE MODEL - application/json

```
[{
  Array of object:
    name      string
    code      string
    roleType  string
  }]
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

31.3 PUT /staffgroup/{c}

update a staff group

Change some of the attributes on an existing staff group

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Staff Group code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
name	string 1 to 45 chars	Staff Group name.
roleType	string 1 to 45 chars	Role Type name
colour	string	A 6-character hex code for Role colour
tt	integer between 0 and 1	1 or 0 flag if Role is a timetabler or not
ex	integer between 0 and 1	1 or 0 flag if Role is an examiner or not
published	integer between 0 and 1	1 or 0 flag if Role is published to students or not

RESPONSE

STATUS CODE - 200: Success - Staff Group successfully updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

31.4 POST /staffgroup/{c}

add a staff group

add a new staff group

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Staff Group code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*name	string 1 to 45 chars	Staff Group name
*roleType	string 1 to 45 chars	Role Type name

NAME	TYPE	DESCRIPTION
*colour	string	A 6-character hex code for Role colour
*tt	integer between 0 and 1	1 or 0 flag if Role is a timetabler or not
*ex	integer between 0 and 1	1 or 0 flag if Role is an examiner or not
*published	integer between 0 and 1	1 or 0 flag if Role is published to students or not

RESPONSE

STATUS CODE - 200: Success - Staff Group successfully added

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

31.5 DELETE /staffgroup/{c}

delete a staff group

delete a staff group and remove any staff mapped to it

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Staff Group code

RESPONSE

STATUS CODE - 200: Success - Staff Group successfully deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

32. STAFF POOL

32.1 GET /staffpools

Get all Staff Pools

Return JSON array of Staff Pools

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Staff Pools

RESPONSE MODEL - application/json

```
[ {  
  Array of object:  
    mc string 1 to 255 chars  
      Unique code to identify the Module  
    sc string 1 to 45 chars  
      Unique code to identify the Staff  
  } ]
```

32.2 GET /staffpool/module/{c}

Get Staff in one Module's Pool

Get the Staff in the Module's Pool

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the module

RESPONSE

STATUS CODE - 200: The list of Staff in the Module's Pool

RESPONSE MODEL - application/json

```
{  
  sc string min:1 chars  
    CSV list of the Staff in the Pool  
  sc.json [string] 1 to 45 chars  
    Unique code to identify the Staff  
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{  
  code* enum ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
    Error codes:
```


- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

32.3 GET /staffpool/staff/{c}

Get Modules for one Staff in Pool

Get the Modules for which the Staff is in a Pool

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Code to identify a Staff member uniquely

RESPONSE

STATUS CODE - 200: The list of Modules for which the Staff is in a Pool

RESPONSE MODEL - application/json

```
{
  mc          string    min:1 chars
               CSV list of the Modules for which the Staff is in a Pool
  mc.json [string] 1 to 255 chars
               Unique code to identify the Module
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*       enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities

  message*    string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*       enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
}
```

- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

32.4 POST /staffpool/staff/{sc}/module/{mc}

Put one Staff into a Module Staff Pool

Put the identified Staff member into the identified Module's Staff Pool

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*sc	string 1 to 45 chars	Code to identify a Staff member uniquely
*mc	string 1 to 255 chars	Unique code to identify the module

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
```

Error codes:

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

32.5 DELETE /staffpool/staff/{sc}/module/{mc}

Delete one Staff from a Module Staff Pool

Take the identified Staff member out of the identified Module's Staff Pool

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*sc	string 1 to 45 chars	Code to identify a Staff member uniquely
*mc	string 1 to 255 chars	Unique code to identify the module

RESPONSE

STATUS CODE - 200: Success - the student was removed from the group

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

33. STUDENT

33.1 GET /students

Get the list of all Students
Return JSON array of students

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useOfferAltc	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer
filterBy	string 0 to 255 chars	<p>The name of one object property to filter by.</p> <p>Used in conjunction with the parameter "filterValue" to filter the query. Specifies which property the passed filter value is in. Both parameters must be passed with a valid value in order to filter the query. Currently only supports filtering by User defined fields.</p>
filterValue	string 0 to 255 chars	<p>The value to filter by.</p> <p>Used in conjunction with the parameter "filterBy" to filter the query. Specifies which value to look for in the property specified by "filterBy". Both parameters must be passed with a valid value in order to filter the query. Currently only supports filtering by User defined fields.</p> <p>If the field is a user field set up with enumeration values, the value passed to this parameter will be looked up in the values of the field's enumerations. For example, if User1 is an enumerations field and student A has User1="val1,val2", passing the value "val1" to this parameter will return student A. Otherwise, the lookup is done by exact string matching. This means that to return student A of the previous example, the string "val1,val2" must be passed if the User1 fields is just plain text.</p>

RESPONSE

STATUS CODE - 200: A JSON array of Student objects

RESPONSE MODEL - application/json

```
[{
```

Array of object:

c	string	1 to 60 chars Unique code to identify the student
n	string	1 to 60 chars Full name
e1	string	1 to 600 chars Email 1
e2	string	1 to 600 chars Email 2
addr	string	0 to 100 chars Address
rbda	integer	between 0 and 999 Number of days advance a booking can be made
rbpw	integer	between 0 and 999 Max number of hours per week that could be booked
rbpd	integer	between 0 and 999

rbmb	integer	Max number of hours per day that could be booked between 0 and 999
rbmg	integer	Max single booking between 0 and 999
mob	string	Minimum gap between bookings 1 to 30 chars
pn	string	Mobile phone number 1 to 60 chars
specReq	string	Principal name for SSO min:0 chars
cc	[string]	A CSV list of students's special requirements min:0 chars
ct	[string]	min:0 chars
td	integer	between 0 and 1
gc	string	1 if student marked for deletion, otherwise 0
gc.json	[string]	CSV list of group codes 1 to 45 chars
gn	string	Unique code to identify the Student Group
gn.json	[string]	CSV list of group names 1 to 255 chars
caps	string	Name for the Student Group
caps.json	[{	CSV list of Capability names
Array of object:		
n	string	1 to 100 chars
		Unique name to identify the capability
type	integer	between 0 and 1
		0 if the Capability applies to Activities; 1 if the Capability applies to Exams
}]		
staff	string	Unique code to identify Staff iff Student is also a Staff
offers	[{	
Array of object:		
n	string	The Offer name (present if userOfferAltC is not set)
m	string	The module code (present if userOfferAltC is not set)
altc	string	The Alt Code for the Offer (present if userOfferAltC is set)
}]		
actualModuleOffers	[{	
Array of object:		
n	string	The Offer name (present if userOfferAltC is not set)
m	string	The module code (present if userOfferAltC is not set)
altc	string	The Alt Code for the Offer (present if userOfferAltC is set)
}]		
dn	[string]	1 to 255 chars
		DEPRECATED
d	{	
The Departments of the Courses in which the Student is enrolled		
c	string	1 to 255 chars
		Unique code to identify the Department or OU
dn	string	1 to 255 chars
		Unique name to identify the Department
}		
user1	string	0 to 60 chars
		User-definable field 1
user2	string	0 to 60 chars
		User-definable field 2
user3	string	0 to 60 chars
		User-definable field 3
user4	string	0 to 60 chars
		User-definable field 4


```

        user5      string      0 to 60 chars
                                User-definable field 5
        user6      string      0 to 60 chars
                                User-definable field 6
    }
}

```

33.2 GET /student/{c}

Get one Student

Get details for one Student

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the student

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
queryBy	string	When present, the user can define which field to query by. Accepted values: IDN, PrincipalName, Default value: IDN
useOfferAltc	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer

RESPONSE

STATUS CODE - 200: A Student object

RESPONSE MODEL - application/json

```

{
  c      string      1 to 60 chars
                        Unique code to identify the student
  n      string      1 to 60 chars
                        Full name
  e1     string      1 to 600 chars
                        Email 1
  e2     string      1 to 600 chars
                        Email 2
  addr   string      0 to 100 chars
                        Address
  rbda   integer      between 0 and 999
                        Number of days advance a booking can be made
  rbpw   integer      between 0 and 999
                        Max number of hours per week that could be booked
  rbpd   integer      between 0 and 999
                        Max number of hours per day that could be booked
  rbmb   integer      between 0 and 999
                        Max single booking
  rbmg   integer      between 0 and 999
                        Minimum gap between bookings
  mob    string      1 to 30 chars
                        Mobile phone number

```

```

pn            string          1 to 60 chars
                                Principal name for SSO
specReq       string          min:0 chars
                                A CSV list of students's special requirements
cc            [string]        min:0 chars
ct            [string]        min:0 chars
td            integer          between 0 and 1
                                1 if student marked for deletion, otherwise 0
gc            string          CSV list of group codes
gc.json       [string]        1 to 45 chars
                                Unique code to identify the Student Group
gn            string          CSV list of group names
gn.json       [string]        1 to 255 chars
                                Name for the Student Group
caps          string          CSV list of Capability names
caps.json [{
Array of object:
    n          string 1 to 100 chars
                                Unique name to identify the capability
    type       integer between 0 and 1
                                0 if the Capability applies to Activities; 1 if the Capability applies to Exams
}]
staff         string          Unique code to identify Staff iff Student is also a Staff
offers [{
Array of object:
    n          string The Offer name (present if userOfferAltc is not set)
    m          string The module code (present if userOfferAltc is not set)
    altc       string The Alt Code for the Offer (present if userOfferAltc is set)
}]
actualModuleOffers [{
Array of object:
    n          string The Offer name (present if userOfferAltc is not set)
    m          string The module code (present if userOfferAltc is not set)
    altc       string The Alt Code for the Offer (present if userOfferAltc is set)
}]
dn            [string]        1 to 255 chars
                                DEPRECATED
d {
The Departments of the Courses in which the Student is enrolled
    c          string 1 to 255 chars
                                Unique code to identify the Department or OU
    dn         string 1 to 255 chars
                                Unique name to identify the Department
}
user1         string          0 to 60 chars
                                User-definable field 1
user2         string          0 to 60 chars
                                User-definable field 2
user3         string          0 to 60 chars
                                User-definable field 3
user4         string          0 to 60 chars
                                User-definable field 4
user5         string          0 to 60 chars
                                User-definable field 5
user6         string          0 to 60 chars
                                User-definable field 6
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

33.3 PUT /student/{c}

Update an existing Student

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the student

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
queryBy	string	When present, the user can define which field to query by. Accepted values: IDN, PrincipalName, Default value: IDN
n	string 1 to 100 chars	Full name
cq	string 1 to 255 chars	New unique code to identify the student
cc	string min:1 chars	CSV list (or JSON array) of Course codes
offers	string min:1 chars	JSON array of pairs (Offer Alt Code, Map Type). Unless 'addOffers' or 'removeOffers' is sent with the value 1, then the Offers listed in parameter 'offers' will be mapped to the Student and other Offers previously mapped to the Student will be removed.
pn	string 1 to 60 chars	Principal name for SSO
e1	string 1 to 600 chars	Email address, primary
e2	string 1 to 600 chars	Email address, backup
mob	string 1 to 30 chars	Mobile phone number
addr	string	Full address
caps	string	CSV list (or JSON array) of names of Capabilities
rbda	integer between 0 and 999	Deprecated. Set in room booking profiles. Number of days advance a booking can be made
rbpw	integer between 0 and 999	Deprecated. Set in room booking profiles. Max number of hours per week that could be booked
rbpd	integer between 0 and 999	Deprecated. Set in room booking profiles. Max number of hours per day that could be booked

NAME	TYPE	DESCRIPTION
rbmb	integer between 0 and 999	Deprecated. Set in room booking profiles. Max single booking
rbmg	integer between 0 and 999	Deprecated. Set in room booking profiles. Minimum gap between bookings
rbrp	string 1 to 65 chars	Deprecated. Set in room booking profiles. Room pool for bookings
specReqs	string 0 to 255 chars	CSV list of Student Special Requirements
td	integer between 0 and 1	To Delete flag
user1	string 0 to 60 chars	User-definable field 1
user2	string 0 to 60 chars	User-definable field 2
user3	string 0 to 60 chars	User-definable field 3
user4	string 0 to 60 chars	User-definable field 4
user5	string 0 to 60 chars	User-definable field 5
user6	string 0 to 60 chars	User-definable field 6
addOffers	number between 0 and 1	This parameter does nothing if not sent or if sent with the value 0. Send with the value 1 to add the Offers listed in parameter 'offers' to the Student.
removeOffers	number between 0 and 1	This parameter does nothing if not sent, sent with the value 0, or if parameter 'addOffers' is sent with the value 1. Otherwise send this parameter with the value 1 to remove the Offers listed in parameter 'offers' from the Student.

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

33.4 POST /student/{c}

Create a new Student

Create a new student

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the student

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 100 chars	Full name
cc	string min:1 chars	CSV list (or JSON array) of Course codes
pn	string 1 to 60 chars	Principal name for SSO
e1	string 1 to 600 chars	Email address, primary
e2	string 1 to 600 chars	Email address, backup
mob	string 1 to 30 chars	Mobile phone number
addr	string	Full address
caps	string	CSV list (or JSON array) of names of Capabilities
rbda	integer between 0 and 999	Deprecated. Set in room booking profiles. Number of days advance a booking can be made
rbpw	integer between 0 and 999	Deprecated. Set in room booking profiles. Max number of hours per week that could be booked
rbpd	integer between 0 and 999	Deprecated. Set in room booking profiles. Max number of hours per day that could be booked
rbmb	integer between 0 and 999	Deprecated. Set in room booking profiles. Max single booking
rbmg	integer between 0 and 999	Deprecated. Set in room booking profiles. Minimum gap between bookings
rbrp	string 1 to 65 chars	Deprecated. Set in room booking profiles. Room pool for bookings
specReqs	string 0 to 255 chars	CSV list of Student Special Requirements
user1	string 0 to 60 chars	User-definable field 1
user2	string 0 to 60 chars	User-definable field 2

NAME	TYPE	DESCRIPTION
user3	string 0 to 60 chars	User-definable field 3
user4	string 0 to 60 chars	User-definable field 4
user5	string 0 to 60 chars	User-definable field 5
user6	string 0 to 60 chars	User-definable field 6

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
  message* string
}
```


Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

33.5 DELETE /student/{c}

Delete a Student

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the student

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
c2	string 1 to 255 chars	Unique code of other Student into which resources of Student being deleted will be merged
softDelete	number between 0 and 1	1 means if the Student is mapped to any Exams, Bookings, Groups, Module Offers or Courses then set the 'to delete' flag on Student (and don't actually delete the Student from the database)

RESPONSE

STATUS CODE - 200: Success - the Student was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
```

Error codes:

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

33.6 GET /students/courses

Get all Student-Course mappings

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A Student-Course mapping object

RESPONSE MODEL - application/json

```
{  
  // a list of all student-course mappings  
  s string 1 to 255 chars  
    // Student code  
  cc string 1 to 255 chars  
    // Course code  
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{  
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
    // Error codes:  
    // * `100` - Bad API key, e.g. too short or malformed  
    // * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys  
    // * `102` - Missing mandatory parameter  
    // * `103` - Missing optional parameter, used when the presence of one parameter is required because of the  
    // presence of another parameter  
    // * `104` - No database found, may occur when a given database has not been loaded onto a test server  
    // * `105` - Internal server error, a catch-all for unexpected errors  
    // * `106` - No object found, i.e. the request contains a code that references no object in the database  
    // * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the  
    // database  
    // * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in  
    // the query parameters  
    // * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed  
    // * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant  
    // Department(s)  
    // * `114` - Object in use - e.g., Student groups are linked to Activities  
  message* string  
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{  
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114  
    // Error codes:  
    // * `100` - Bad API key, e.g. too short or malformed  
    // * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys  
    // * `102` - Missing mandatory parameter  
    // * `103` - Missing optional parameter, used when the presence of one parameter is required because of the  
    // presence of another parameter  
    // * `104` - No database found, may occur when a given database has not been loaded onto a test server  
    // * `105` - Internal server error, a catch-all for unexpected errors  
    // * `106` - No object found, i.e. the request contains a code that references no object in the database  
    // * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the  
    // database  
    // * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in  
    // the query parameters  
    // * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed  
    // * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant  
    // Department(s)  
    // * `114` - Object in use - e.g., Student groups are linked to Activities  
  message* string  
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

33.7 DELETE /students/courses

Delete all Student-Course mappings

Delete all Student-Course mappings (use with caution!)

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Success - all the Student-Courses mappings were deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

33.8 GET /students/offers

Get all Student-Offer mappings

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A Student-Offer mapping object

RESPONSE MODEL - application/json

```

{
  a list of all student-offer mappings
  s      string  1 to 255 chars
              Student code
  o      string  1 to 255 chars
              Offer name
  mc     string  1 to 255 chars
              Module Offer code
}

```

```
mtc string 1 to 255 chars
```

The code for the Student-Module Offer map type.

```
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
```

the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

33.9 DELETE /students/offers

Delete all Student-Offer mappings

Delete all Student-Offer mappings (use with caution!)

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Success - all the Student-Offer mappings were deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

```
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

33.10 POST /student/{s}/group/{g}

Put a Student into a Group

Put the identified Student into the identified Group

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*s	string 1 to 255 chars	Unique code to identify the Student
*g	string 1 to 45 chars	Unique code to identify the group

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
```


presence of another parameter
 * `104` - No database found, may occur when a given database has not been loaded onto a test server
 * `105` - Internal server error, a catch-all for unexpected errors
 * `106` - No object found, i.e. the request contains a code that references no object in the database
 * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
 * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

33.11 DELETE /student/{s}/group/{g}

Delete a Student from a Group

Take the identified Student out of the identified Group

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*s	string 1 to 255 chars	Unique code to identify the Student
*g	string 1 to 45 chars	Unique code to identify the group

RESPONSE

STATUS CODE - 200: Success - the student was removed from the group

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

33.12 GET /student/{s}/offer/{o}

Get one Student-Offer mapping

Get details for one Student-Offer mapping

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*s	string 1 to 255 chars	Unique code to identify the Student
*o	string 1 to 255 chars	Name to identify the Offer

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
c	string 1 to 50 chars	Unique code to identify the module
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: A Student-Offer mapping object

RESPONSE MODEL - application/json

```

{
  c string 1 to 255 chars
      Unique code to identify the type of the Student-Offer mapping
  n string 1 to 255 chars
      A descriptive name for the type of the Student-Offer mapping
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

33.13 POST /student/{s}/offer/{o}

Put a Student into an Offer

Put the identified Student into the identified Offer

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*s	string 1 to 255 chars	Unique code to identify the Student
*o	string 1 to 255 chars	Name to identify the Offer

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
c	string 1 to 50 chars	Unique code to identify the module
useAlt c	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
mtc	string 1 to 255 chars	The code for the Student-Module Offer map type. If not specified, the code 'DEF' is assumed.

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message*   string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

33.14 DELETE /student/{s}/offer/{o}

Delete a Student from an Offer

Delete the specified type of mapping between the specified Student and the specified Offer. If the type of mapping is not specified, assume the type of mapping is 'DEF'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*s	string 1 to 255 chars	Unique code to identify the Student
*o	string 1 to 255 chars	Name to identify the Offer

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
c	string 1 to 50 chars	Unique code to identify the module
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
unmapGroup	number between 0 and 1	To be used and set to 1 when the corresponding individual Student Group for Student s is to be unmapped from the Offer o Activities
mtc	string 1 to 255 chars	The code for the Student-Module Offer map type. If not specified, the code 'DEF' is assumed.

RESPONSE

STATUS CODE - 200: Success - the student was removed from the Offer

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```

    message* string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

    message* string
}

```

33.15 DELETE /student/{s}/course/{cc}

Delete one Student-Course mapping

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*s	string 1 to 255 chars	Unique code to identify the Student
*cc	string 1 to 45 chars	Unique code to identify Courses

RESPONSE

STATUS CODE - 200: Success - The Student-Course mapping was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed

```


* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

34. STUDENT GROUP

34.1 GET /studentgroups

Get all Student Groups
Get the list of all Student Groups

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useOfferAltc	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer

RESPONSE

STATUS CODE - 200: A JSON array of Student Groups

RESPONSE MODEL - application/json

```
[{
  Array of object:
    gc      string  1 to 45 chars
                Unique code to identify the Student Group
    gn      string  1 to 255 chars
                Name for the Student Group
    cc      string  1 to 255 chars
                Unique code to identify the Course
    sz      number
    dc      string  The code of the department that owns the course
    offers [{
      Array of object:
        n      string  The Offer name (present if userOfferAltc is not set)
        m      string  The module code (present if userOfferAltc is not set)
        altc   string  The Alt Code for the Offer (present if userOfferAltc is set)
        goUrl  string  The URL for this group-offer mapping
      }]
    tags [{
      Array of object:
        n      string
      }]
    activities [string] min:1 chars
                A unique identifier for the Activity
    superGroup string  1 to 100 chars
                The name of the group's super group
  }]
```

34.2 GET /studentgroup/{gc}

Get one Student Group
Get details for one Student Group

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useOfferAlt	number between 0 and 1	To be used when the alternative code is used to identify the Module Offer

RESPONSE

STATUS CODE - 200: A Student Group object

RESPONSE MODEL - application/json

```
{
  gc          string    1 to 45 chars
                  Unique code to identify the Student Group
  gn          string    1 to 255 chars
                  Name for the Student Group
  cc          string    1 to 255 chars
                  Unique code to identify the Course
  sz          number    The size of the Student Group
  dc          string    The code of the department that owns the course
  offers [{
    Array of object:
      n      string    The Offer name (present if userOfferAlt is not set)
      m      string    The module code (present if userOfferAlt is not set)
      altc   string    The Alt Code for the Offer (present if userOfferAlt is set)
      goUrl  string    The URL for this group-offer mapping
    }]
  tags [{
    Array of object:
      n      string
    }]
  activities [string]  min:1 chars
                  A unique identifier for the Activity
  students   [string]  1 to 60 chars
                  Unique code to identify the student
  superGroup string    1 to 100 chars
                  The name of the group's super group
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                  Error codes:
                  * `100` - Bad API key, e.g. too short or malformed
                  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                  * `102` - Missing mandatory parameter
                  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                  presence of another parameter
                  * `104` - No database found, may occur when a given database has not been loaded onto a test server
                  * `105` - Internal server error, a catch-all for unexpected errors
                  * `106` - No object found, i.e. the request contains a code that references no object in the database
}
```

- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

34.3 PUT /studentgroup/{gc}

Update an existing Student Group

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
gn	string 1 to 255 chars	Name for the Student Group
cc	string 1 to 255 chars	Unique code to identify the Course
sz	number ≥0	Size
exams	string min:1 chars	CSV list (or JSON array) of Exam codes
examMapSetAddOrDelete	integer between 0 and 2	If parameter 'exams' is not sent, then this parameter 'examMapSetAddOrDelete' is ignored. Otherwise, when 'examMapSetAddOrDelete' is 0 the Student Group is mapped to the listed Exams and any other pre-existing mappings are deleted; when 'examMapSetAddOrDelete' is 1 the Student Group is mapped to the listed Exams but other pre-existing mappings are kept; when 'examMapSetAddOrDelete' is 2 any mappings between the Student Group and the listed Exams are deleted but any other pre-existing mappings are not touched. Finally, if 'exams' is sent but 'examMapSetAddOrDelete' is not sent, it is assumed that 'examMapSetAddOrDelete' was sent as 0

RESPONSE

STATUS CODE - 200: Success - the Student Group was created

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                    Error codes:
                    * `100` - Bad API key, e.g. too short or malformed
                    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                    * `102` - Missing mandatory parameter
                    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                    presence of another parameter
                    * `104` - No database found, may occur when a given database has not been loaded onto a test server
                    * `105` - Internal server error, a catch-all for unexpected errors
                    * `106` - No object found, i.e. the request contains a code that references no object in the database
                    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                    database
                    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                    the query parameters
                    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                    Department(s)
                    * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                    Error codes:
                    * `100` - Bad API key, e.g. too short or malformed
                    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                    * `102` - Missing mandatory parameter
                    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                    presence of another parameter
                    * `104` - No database found, may occur when a given database has not been loaded onto a test server
                    * `105` - Internal server error, a catch-all for unexpected errors
                    * `106` - No object found, i.e. the request contains a code that references no object in the database
                    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                    database
                    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                    the query parameters
                    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                    Department(s)
                    * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

34.4 POST /studentgroup/{gc}

Create a new Student Group

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*gn	string 1 to 255 chars	Name for the Student Group
cc	string 1 to 255 chars	Unique code to identify the Course

NAME	TYPE	DESCRIPTION
sz	number >=0	Size

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

34.5 DELETE /studentgroup/{gc}

Delete a Student Group

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
unlink	number between 0 and 1	To delete a Student Group that is linked to (one or more) Activities you must set unlink to 1, otherwise the delete will not be allowed
deleteLinkedActivities	number between 0 and 1	Set to 1 if you want TermTime to delete Activities linked to the StudentGroup you are deleting. Ignored if the "unlink" parameter is passed with a value of "1". USE WITH CARE.

RESPONSE

STATUS CODE - 200: Success - the Student Group was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the

```



```

database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```

```

message* string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

34.6 GET /studentgroup/{gc}/offer/{o}

Get one Student Group-Module Offer mapping

Get details for one Student Group-Module Offer mapping

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group
*o	string 1 to 255 chars	Name to identify the Offer

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
c	string 1 to 50 chars	Unique code to identify the module
useAlt	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: A Student Group-Module Offer mapping

RESPONSE MODEL - application/json

```
{
  gc      string 1 to 45 chars
           Unique code to identify the Student Group
  n      string 1 to 255 chars
           The offer name
  m      string 1 to 255 chars
           The module code
  altc   string 0 to 255 chars
           Alt Code
  goUrl  string 1 to 65535 chars
           URL for the student group-offer mapping
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*   enum  ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
           Error codes:
           * `100` - Bad API key, e.g. too short or malformed
           * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
           * `102` - Missing mandatory parameter
           * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
           presence of another parameter
           * `104` - No database found, may occur when a given database has not been loaded onto a test server
           * `105` - Internal server error, a catch-all for unexpected errors
           * `106` - No object found, i.e. the request contains a code that references no object in the database
           * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
           database
           * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
           the query parameters
           * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
           * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
           Department(s)
           * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                    Error codes:
                    * `100` - Bad API key, e.g. too short or malformed
                    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                    * `102` - Missing mandatory parameter
                    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                    presence of another parameter
                    * `104` - No database found, may occur when a given database has not been loaded onto a test server
                    * `105` - Internal server error, a catch-all for unexpected errors
                    * `106` - No object found, i.e. the request contains a code that references no object in the database
                    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                    database
                    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                    the query parameters
                    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                    Department(s)
                    * `114` - Object in use - e.g., Student groups are linked to Activities

  message*  string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                    Error codes:
                    * `100` - Bad API key, e.g. too short or malformed
                    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                    * `102` - Missing mandatory parameter
                    * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                    presence of another parameter
                    * `104` - No database found, may occur when a given database has not been loaded onto a test server
                    * `105` - Internal server error, a catch-all for unexpected errors
                    * `106` - No object found, i.e. the request contains a code that references no object in the database
                    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                    database
                    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                    the query parameters
                    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                    Department(s)
                    * `114` - Object in use - e.g., Student groups are linked to Activities

  message*  string
}

```

34.7 PUT /studentgroup/{gc}/offer/{o}

Update a student group to offer mapping

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group
*o	string 1 to 255 chars	Name to identify the Offer

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
c	string 1 to 50 chars	Unique code to identify the module

NAME	TYPE	DESCRIPTION
useAlt	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

REQUEST BODY - application/json

```
{
  goUrl string 1 to 65535 chars
  An online meeting URL string for the student group-offer mapping. Does not need to be URL encoded
}
```

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code* enum ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code* enum ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code* enum ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
}
```

* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

34.8 POST /studentgroup/{gc}/offer/{o}

Put Student Group into Offer

Put the identified Student Group into the identified Offer

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group
*o	string 1 to 255 chars	Name to identify the Offer

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
c	string 1 to 50 chars	Unique code to identify the module
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

REQUEST BODY - application/json

```
{
  goUrl string 1 to 65535 chars
  An online meeting URL string for the student group-offer mapping. Does not need to be URL encoded
}
```

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database

```

- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

34.9 DELETE /studentgroup/{gc}/offer/{o}

Delete Student Group from Offer

Take the identified Student Group out of the identified Offer

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group
*o	string 1 to 255 chars	Name to identify the Offer

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
c	string 1 to 50 chars	Unique code to identify the module
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: Success - the student was removed from the Offer

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

34.10 GET /studentgroupmaps

Get all Student-Group mappings

Get the list of all Student-Group mappings

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Student-Group mappings

RESPONSE MODEL - application/json

```
[ {
  Array of object:
  s string 1 to 60 chars
}
```



```

    g string 1 to 45 chars
        Unique code to identify the Student
    }
    Unique code to identify the Student Group
  }
}
```

34.11 GET /studentgroup/{gc}/activity/{c}

Get one Student Group-Activity mapping

Get details for one Student Group-Activity mapping

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group
*c	string 1 to 255 chars	Unique code to identify the Activity

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useUser2	number between 0 and 1	To be used when the User2 field code is used to identify the underlying object
useExamCode	number between 0 and 1	To be used when the ExamCode field code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: A Student Group-Activity mapping

RESPONSE MODEL - application/json

```

{
  gc      string 1 to 45 chars
           Unique code to identify the Student Group
  c       string 1 to 255 chars
           Unique code to identify the Activity
  user1   string 1 to 256 chars
           User-definable field 1
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*   enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
              Error codes:
              * `100` - Bad API key, e.g. too short or malformed
              * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
              * `102` - Missing mandatory parameter
              * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
              presence of another parameter
              * `104` - No database found, may occur when a given database has not been loaded onto a test server
              * `105` - Internal server error, a catch-all for unexpected errors
              * `106` - No object found, i.e. the request contains a code that references no object in the database
              * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
```

```

database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```

```

message* string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}

```

34.12 POST /studentgroup/{gc}/activity/{c}

Put a Student Group into an Activity

Put the identified Student Group into the identified Activity

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group
*c	string 1 to 255 chars	Unique code to identify the Activity

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useUser2	number between 0 and 1	To be used when the User2 field code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message*   string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message*   string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
```

the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

34.13 DELETE /studentgroup/{gc}/activity/{c}

Delete a Student Group from an Activity

Take the identified Student Group out of the identified Activity

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group
*c	string 1 to 255 chars	Unique code to identify the Activity

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useUser2	number between 0 and 1	To be used when the User2 field code is used to identify the underlying object

RESPONSE

STATUS CODE - 200: Success - the student was removed from the Activity

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

35. SUPERGROUP

35.1 GET /supergroups

Get all Student Super Groups

Get the list of all Student Super Groups

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Student Super Groups

RESPONSE MODEL - application/json

```
[ {  
  Array of object:  
  superGroup string 1 to 100 chars  
    The name of the group's super group  
  studentGroups [{  
    Array of object:  
    code undefined The code of the Student Group  
  }]  
}]
```

35.2 GET /supergroup/{gc}

Get one Student Super Group

Get details for one Student Super Group

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group

RESPONSE

STATUS CODE - 200: A Student Super Group object

RESPONSE MODEL - application/json

```
{  
  superGroup string 1 to 100 chars  
    The name of the group's super group  
  studentGroups [{  
    Array of object:  
    code undefined The code of the Student Group  
  }]  
}
```

36. TIMEFRAME

36.1 GET /timeframes

Get all Timeframes

Get the list of all Timeframes

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of Timeframes

RESPONSE MODEL - application/json

```
[ {  
  Array of object:  
    c      string 1 to 110 chars  
              Unique code to identify the Timeframe  
    n      string 1 to 120 chars  
              Name to identify the Timeframe  
    f      number First week of the Timeframe  
    l      number Last week of the Timeframe  
    fDate  string First date of the Timeframe i.e. first day of first week (format: yyyy-mm-dd)  
    lDate  string Last date of the Timeframe i.e. last day of last week (format: yyyy-mm-dd)  
  } ]
```

36.2 GET /timeframe/{c}

Get one Timeframe

Get details for one Timeframe

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 110 chars	Timeframe Code

RESPONSE

STATUS CODE - 200: A Timeframe object

RESPONSE MODEL - application/json

```
{  
  c      string 1 to 110 chars  
              Unique code to identify the Timeframe  
  n      string 1 to 120 chars  
              Name to identify the Timeframe  
  f      number First week of the Timeframe  
  l      number Last week of the Timeframe  
  fDate  string First date of the Timeframe i.e. first day of first week (format: yyyy-mm-dd)
```

```

    lDate string Last date of the Timeframe i.e. last day of last week (format: yyyy-mm-dd)
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters

```


* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

36.3 PUT /timeframe/{c}

Update a Timeframe

A first and last week must be provided with the 'f' and 'l' query parameters or alternatively start and end date with the 'start' and 'end' query parameters

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 110 chars	Timeframe Code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
n	string 1 to 120 chars	Timeframe Name
f	number	Timeframe first week - either e.g. 1 for first week of academic year
l	number	Timeframe last week - either e.g. 1 for first week of academic year
start	string	Start date of the timeframe in YYYY-MM-DD format
end	string	End date of the timeframe in YYYY-MM-DD format

RESPONSE

STATUS CODE - 200: Success - the Timeframe was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

36.4 POST /timeframe/{c}

Create a Timeframe

A first and last week must be provided with the 'f' and 'l' query parameters or alternatively start and end date with the 'start' and 'end' query parameters

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 110 chars	Timeframe Code

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*n	string 1 to 120 chars	Timeframe Name
f	number	Timeframe first week - either e.g. 1 for first week of academic year
l	number	Timeframe last week - either e.g. 1 for first week of academic year
start	string	Start date of the timeframe in YYYY-MM-DD format
end	string	End date of the timeframe in YYYY-MM-DD format

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
}
```

* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

36.5 DELETE /timeframe/{c}

Delete a Timeframe

Delete an existing Timeframe

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 110 chars	Timeframe Code

RESPONSE

STATUS CODE - 200: Success - the Timeframe was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               * `100` - Bad API key, e.g. too short or malformed
               * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               * `102` - Missing mandatory parameter
               * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               * `104` - No database found, may occur when a given database has not been loaded onto a test server
               * `105` - Internal server error, a catch-all for unexpected errors
               * `106` - No object found, i.e. the request contains a code that references no object in the database
               * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

37. TIMETABLE

37.1 GET /timetable/activity/{c}/{i}

Get timetable for an Activity Instance

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the Activity
*i	string 1 to 255 chars	Unique code to identify the Activity Instance

RESPONSE

STATUS CODE - 200: An array of Activity Instances. When no Activity Instances are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```
{
  activityInstance {
    name string
    id string
  }
  status string
  timePeriod {
    startDate string Date (YYYY-MM-DD)
    endDate string Date (YYYY-MM-DD)
  }
  schedule [{
    Array of object:
    date string
    dateDescription string
    week string
    items [{
      Array of object:
      uniqueId string
      activityId string
      activityName string
      activityDescription string
      departmentHostKey string
      departmentName string
      startTime string
      endTime string
      activityDurationMins string
      allDayActivity string
      locations [{
        Array of object:
        locationName string
        locationDesc string
        room string
      ]
    ]
  ]
}
```

```

    buildingCode string 1 to 45 chars
                        Code for the Building
    catalogueUrl string
    details string
}]
moduleId string
moduleDescription string
moduleUrl string
bOptional boolean
streamId string
activityProperties {
    allDay string
    altc string 1 to 64 chars
                        Alt code of the Module to which the Activity belongs
    optional string
    departmentHostKey string
    exceptionGroup string
    friendlyName string
    nopublishstaff string
    nopublishstudent string
    notes string
    planSize number The plan size
    ready string
    repeatgroup string Name of the repeat group to which this event's Activity belongs
    repeatOf string The unique code to identify the activity to which this event's activity is a repeat of
    repeat string [[ Deprecated – please use "repeatOf" instead ]] The unique code to identify the
                        activity to which this event's activity is a repeat of
    size number The plan or actual size
    stuCount number >=0
                        The actual number of students in the activity
    typeCode string
    user1 string
    user2 string
    user3 string
    user4 string
    user5 string
    user6 string
    user7 string
    virtual string
    meetingRequired boolean
    meetingUrl string
}
module {
    altc string 0 to 64 chars
                        Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
offer {
    altc string 0 to 255 chars
                        Alt code for the Offer
    n string 1 to 255 chars
                        Name for the Offer
    user1 string
    user2 string
}

```

```

tags [{
  Array of object:
    n string
}]
academics [{
  Array of object:
    fullName string Name of the Staff member
    email string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role string The role performed by the Staff member for the Activity or Booking
}]
activityGroup {
  name string
  type string
}
students [{
  Array of object:
    code string 0 to 255 chars
      Unique code to identify the Student
    name string 0 to 255 chars
      Name of Student
    email string 0 to 600 chars
      Email address for Student
}]
}]
examItems [{
  Array of object:
    academics [{
      Array of object:
        fullName string Name of the Staff member
        email string Email address for the Staff member
        phoneNumber string Phone number for the Staff member
        role string The role performed by the Staff member for the Activity or Booking
      }]
    allDayActivity string
    assessmentPeriodCode string
    departmentHostKey string
    departmentName string
    endTime string
      For Classic and Takehome Exams this is the end time of the
      Exam Sessions. For Serial Exams this is the end time of a
      Student's Track Slot.

    examCode string
    examDescription string
    examDurationMins number
    examId string
    examName string
    examProperties {
      allDay string
      altc string 1 to 64 chars
        A unique identifier for the Module to which the Exam belongs.

      departmentHostKey string
      exceptionGroup string
      friendlyName string
      nopublishstaff string
      nopublishstudent string
      notes string
      planSize number The plan size
      ready string
    }
  }
}]

```



```

    size                number    The plan or actual size
    typeCode            string    Unique code to identify the Activity Type
    user1               string
    user2               string
    user3               string
    virtual             string
    sharing             string
    splittable          string
    minRoomSize         number    Minimum number of attendees in a room
    exclusiveStaff      string
    trackSlotMinutes    number    A value of 0 indicates a parallel exam (all students sit the exam at the same time).
                                Non 0 values indicate the duration, in minutes, for a serial exam session (students
                                allocated to tracks and sit the exam on track after the other)
}
locations [{
Array of object:
    locationName string
    locationDesc string
    room         string
    buildingCode string 1 to 45 chars
                                Code for the Building
    catalogueUrl string
    details      string
}]
module {
    altc string 0 to 64 chars
                                Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
moduleDescription string
moduleId          string
moduleUrl         string
offer {
    altc string 0 to 255 chars
                                Alt code for the Offer
    n    string 1 to 255 chars
                                Name for the Offer
    user1 string
    user2 string
}
startTime                string    For Classic and Takehome Exams this is the start time of the
                                Exam Sessions. For Serial Exams this is the start time of a
                                Student's Track Slot.

    streamId              string
    uniqueId              string
}]
bookingItems [{
Array of object:
    uniqueId              string
    bookingId             string
    bookingDescription    string
    departmentHostKey     string
    departmentName        string
    startTime             string
    endTime               string
    bookingDurationMins   string

```

```

allDayBooking          string
locations [{
  Array of object:
    locationName string
    locationDesc string
    room          string
    buildingCode  string 1 to 45 chars
                        Code for the Building
    catalogueUrl  string
    details       string
}]
moduleId             string
moduleDescription    string
moduleUrl            string
streamId             string
bookingProperties {
  allDay          string
  departmentHostKey string
  nopublishstudent boolean
  notes           string
  typeCode        string
  user1           string
  user2           string
  user3           string
  user4           string
  userFields [{
    Array of object:
      index number >=1
                        User field number
      value string Value stored in the user field
      type  string A description of the type of the value
      min   number optional, minimum value (applied to user fields of type 'int')
      max   number optional, maximum value (applied to user fields of type 'int')
    }]
  }
}
module {
  altc string 0 to 64 chars
        Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
offer {
  altc string 0 to 255 chars
        Alt code for the Offer
  n     string 1 to 255 chars
        Name for the Offer
  user1 string
  user2 string
}
tags [{
  Array of object:
    n string
}]
academics [{
  Array of object:
    fullName string Name of the Staff member

```

```

        email            string    Email address for the Staff member
        phoneNumber      string    Phone number for the Staff member
        role             string    The role performed by the Staff member for the Activity or Booking
    }]
    staffAttendees       [string]   1 to 45 chars
                                   Unique code to identify the Staff

    staffAttendeeObjects [{
    Array of object:
        c string 1 to 45 chars
                                   Unique code to identify the staff member
        n string 1 to 100 chars
                                   Name of the staff memver
    }]
    studentAttendees [{
    Array of object:
        c string 1 to 255 chars
                                   Unique code to identify the student
        n string 1 to 255 chars
                                   Student name
    }]
    }]
    sessionItems [{
    Array of object:
        sessionId        string
        sessionName      string
        startDate        string
        startTime        string
        endDate          string
        endTime          string
        sessionLocation {
            code          string
            building      string
            campus        string
        }
        staffRole {
            code string
            name string
        }
        meetingStartTime string
        meetingEndTime   string
        meetingNotes     string
    }]
    }]
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
    code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                   Error codes:
                                   * `100` - Bad API key, e.g. too short or malformed
                                   * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                   * `102` - Missing mandatory parameter
                                   * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                   presence of another parameter
                                   * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                   * `105` - Internal server error, a catch-all for unexpected errors
                                   * `106` - No object found, i.e. the request contains a code that references no object in the database
                                   * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                   database
}

```

- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

37.2 GET /timetable/booking/{c}/{i}

Get timetable for a Booking Instance

Get timetable for a Booknig Instance

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the Booking
*i	string 1 to 255 chars	Unique code to identify the Booking Instance

RESPONSE

STATUS CODE - 200: An array of Booking Instances. When no Booking Instances are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```
{
  bookingInstance {
    name string
    id string
  }
  status string
  timePeriod {
    startDate string Date (YYYY-MM-DD)
    endDate string Date (YYYY-MM-DD)
  }
  schedule [{
    Array of object:
    date string
    dateDescription string
    week string
    items [{
      Array of object:
      uniqueId string
      activityId string
      activityName string
      activityDescription string
      departmentHostKey string
      departmentName string
      startTime string
      endTime string
      activityDurationMins string
      allDayActivity string
      locations [{
        Array of object:
        locationName string
        locationDesc string
        room string
        buildingCode string 1 to 45 chars
                                Code for the Building
        catalogueUrl string
        details string
      }]
      moduleId string
      moduleDescription string
      moduleUrl string
      bOptional boolean
      streamId string
      activityProperties {
        allDay string
      }
    }
  ]
}
```

```

    altc          string  1 to 64 chars
                        Alt code of the Module to which the Activity belongs
    optional      string
    departmentHostKey string
    exceptionGroup string
    friendlyName  string
    nopublishstaff string
    nopublishstudent string
    notes         string
    planSize      number  The plan size
    ready         string
    repeatgroup   string  Name of the repeat group to which this event's Activity belongs
    repeatOf      string  The unique code to identify the activity to which this event's activity is a repeat of
    repeat        string  [[ Deprecated – please use "repeatOf" instead ]] The unique code to identify the
                        activity to which this event's activity is a repeat of
    size          number  The plan or actual size
    stuCount      number  >=0
                        The actual number of students in the activity

    typeCode      string
    user1         string
    user2         string
    user3         string
    user4         string
    user5         string
    user6         string
    user7         string
    virtual       string
    meetingRequired boolean
    meetingUrl    string
}
module {
    altc  string  0 to 64 chars
                        Alt Code
    user1 string  0 to 256 chars
    user2 string  0 to 256 chars
    user3 string  0 to 256 chars
    user4 string  0 to 256 chars
}
offer {
    altc  string  0 to 255 chars
                        Alt code for the Offer
    n     string  1 to 255 chars
                        Name for the Offer

    user1 string
    user2 string
}
tags [{
    Array of object:
    n string
}]
academics [{
    Array of object:
    fullName string  Name of the Staff member
    email     string  Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role      string  The role performed by the Staff member for the Activity or Booking
}]
activityGroup {

```

```

    name string
    type string
}
students [{
Array of object:
    code string 0 to 255 chars
                        Unique code to identify the Student
    name string 0 to 255 chars
                        Name of Student
    email string 0 to 600 chars
                        Email address for Student
}]
}]
examItems [{
Array of object:
    academics [{
Array of object:
        fullName string Name of the Staff member
        email string Email address for the Staff member
        phoneNumber string Phone number for the Staff member
        role string The role performed by the Staff member for the Activity or Booking
    }]
    allDayActivity string
    assessmentPeriodCode string
    departmentHostKey string
    departmentName string
    endTime string
                                For Classic and Takehome Exams this is the end time of the
                                Exam Sessions. For Serial Exams this is the end time of a
                                Student's Track Slot.

    examCode string
    examDescription string
    examDurationMins number
    examId string
    examName string
    examProperties {
        allDay string
        altc string 1 to 64 chars
                                A unique identifier for the Module to which the Exam belongs.

        departmentHostKey string
        exceptionGroup string
        friendlyName string
        nopublishstaff string
        nopublishstudent string
        notes string
        planSize number The plan size
        ready string
        size number The plan or actual size
        typeCode string Unique code to identify the Activity Type
        user1 string
        user2 string
        user3 string
        virtual string
        sharing string
        splittable string
        minRoomSize number Minimum number of attendees in a room
        exclusiveStaff string
        trackSlotMinutes number A value of 0 indicates a parallel exam (all students sit the exam at the same time).
                                Non 0 values indicate the duration, in minutes, for a serial exam session (students
                                allocated to tracks and sit the exam on track after the other)
    }
}
]
```

```

}
locations [{
  Array of object:
    locationName string
    locationDesc string
    room string
    buildingCode string 1 to 45 chars
                                Code for the Building
    catalogueUrl string
    details string
}]
module {
  altc string 0 to 64 chars
                                Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
moduleDescription string
moduleId string
moduleUrl string
offer {
  altc string 0 to 255 chars
                                Alt code for the Offer
  n string 1 to 255 chars
                                Name for the Offer
  user1 string
  user2 string
}
startTime string
                                For Classic and Takehome Exams this is the start time of the
                                Exam Sessions. For Serial Exams this is the start time of a
                                Student's Track Slot.

streamId string
uniqueId string
}]
bookingItems [{
  Array of object:
    uniqueId string
    bookingId string
    bookingDescription string
    departmentHostKey string
    departmentName string
    startTime string
    endTime string
    bookingDurationMins string
    allDayBooking string
    locations [{
      Array of object:
        locationName string
        locationDesc string
        room string
        buildingCode string 1 to 45 chars
                                Code for the Building
        catalogueUrl string
        details string
    }]
    moduleId string

```



```

moduleDescription      string
moduleUrl              string
streamId              string
bookingProperties {
    allDay              string
    departmentHostKey   string
    nopublishstudent    boolean
    notes               string
    typeCode            string
    user1               string
    user2               string
    user3               string
    user4               string
    userFields [{
        Array of object:
        index number >=1
                                User field number
        value string Value stored in the user field
        type  string A description of the type of the value
        min   number optional, minimum value (applied to user fields of type 'int')
        max   number optional, maximum value (applied to user fields of type 'int')
    }]
}
module {
    altc string 0 to 64 chars
            Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
offer {
    altc string 0 to 255 chars
            Alt code for the Offer
    n      string 1 to 255 chars
            Name for the Offer
    user1 string
    user2 string
}
tags [{
    Array of object:
    n string
}]
academics [{
    Array of object:
    fullName string Name of the Staff member
    email     string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role      string The role performed by the Staff member for the Activity or Booking
}]
staffAttendees [string] 1 to 45 chars
                                Unique code to identify the Staff

staffAttendeeObjects [{
    Array of object:
    c string 1 to 45 chars
            Unique code to identify the staff member
    n string 1 to 100 chars
            Name of the staff memver
}

```

```

    ]]
    studentAttendees [{
      Array of object:
        c string 1 to 255 chars
          Unique code to identify the student
        n string 1 to 255 chars
          Student name
    }]
  }]
  sessionItems [{
    Array of object:
      sessionId      string
      sessionName    string
      startDate       string
      startTime       string
      endDate         string
      endTime         string
      sessionLocation {
        code          string
        building       string
        campus         string
      }
      staffRole {
        code string
        name string
      }
      meetingStartTime string
      meetingEndTime   string
      meetingNotes      string
    }]
  }]
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114

```

Error codes:

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

37.3 GET /timetable/building/{b}/{c}

Get timetable for a building

Returns timetabled activities for today or for the requested date range, provided that the range is within the current academic year.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*b	string 1 to 45 chars	Identifying name for a building
*c	string 1 to 45 chars	Identifying name for a campus

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
start	string 10 to 10 chars	Start date in YYYY-MM-DD format

NAME	TYPE	DESCRIPTION
end	string 10 to 10 chars	End date in YYYY-MM-DD format

RESPONSE

STATUS CODE - 200: An array of activities. When no activities are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```
{
  building {
    name string
    id string
  }
  status string
  timePeriod {
    startDate string Date(YYYY-MM-DD)
    endDate string Date(YYYY-MM-DD)
  }
  schedule [{
    Array of object:
    date string
    dateDescription string
    week string
    items [{
      Array of object:
      uniqueId string
      activityId string
      activityName string
      activityDescription string
      departmentHostKey string
      departmentName string
      startTime string
      endTime string
      activityDurationMins string
      allDayActivity string
      locations [{
        Array of object:
        locationName string
        locationDesc string
        room string
        buildingCode string 1 to 45 chars
                                Code for the Building
        catalogueUrl string
        details string
      }]
      moduleId string
      moduleDescription string
      moduleUrl string
      bOptional boolean
      streamId string
      activityProperties {
        allDay string
        altc string 1 to 64 chars
                                Alt code of the Module to which the Activity belongs
        optional string
      }
    }
  ]
}
```

```

    departmentHostKey string
    exceptionGroup    string
    friendlyName      string
    nopublishstaff    string
    nopublishstudent  string
    notes             string
    planSize          number    The plan size
    ready             string
    repeatgroup       string    Name of the repeat group to which this event's Activity belongs
    repeatOf          string    The unique code to identify the activity to which this event's activity is a repeat of
    repeat            string    [[ Deprecated – please use "repeatOf" instead ]] The unique code to identify the
                                activity to which this event's activity is a repeat of
    size              number    The plan or actual size
    stuCount          number    >=0
                                The actual number of students in the activity

    typeCode          string
    user1             string
    user2             string
    user3             string
    user4             string
    user5             string
    user6             string
    user7             string
    virtual           string
    meetingRequired   boolean
    meetingUrl        string
}
module {
    altc string 0 to 64 chars
                                Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
offer {
    altc string 0 to 255 chars
                                Alt code for the Offer
    n string 1 to 255 chars
                                Name for the Offer
    user1 string
    user2 string
}
tags [{
Array of object:
    n string
}]
academics [{
Array of object:
    fullName string    Name of the Staff member
    email     string    Email address for the Staff member
    phoneNumber string  Phone number for the Staff member
    role      string    The role performed by the Staff member for the Activity or Booking
}]
activityGroup {
    name string
    type string
}

```

```

students [{
  Array of object:
    code   string 0 to 255 chars
                Unique code to identify the Student
    name   string 0 to 255 chars
                Name of Student
    email  string 0 to 600 chars
                Email address for Student
  }]
}]
examItems [{
  Array of object:
    academics [{
      Array of object:
        fullName   string Name of the Staff member
        email       string Email address for the Staff member
        phoneNumber string Phone number for the Staff member
        role        string The role performed by the Staff member for the Activity or Booking
      }]
    allDayActivity      string
    assessmentPeriodCode string
    departmentHostKey   string
    departmentName      string
    endTime             string
                        For Classic and Takehome Exams this is the end time of the
                        Exam Sessions. For Serial Exams this is the end time of a
                        Student's Track Slot.

    examCode            string
    examDescription     string
    examDurationMins    number
    examId              string
    examName            string
    examProperties {
      allDay      string
      altc        string 1 to 64 chars
                  A unique identifier for the Module to which the Exam belongs.

      departmentHostKey string
      exceptionGroup   string
      friendlyName     string
      nopublishstaff   string
      nopublishstudent string
      notes            string
      planSize         number The plan size
      ready            string
      size             number The plan or actual size
      typeCode         string Unique code to identify the Activity Type
      user1            string
      user2            string
      user3            string
      virtual          string
      sharing          string
      splittable       string
      minRoomSize      number Minimum number of attendees in a room
      exclusiveStaff   string
      trackSlotMinutes number A value of 0 indicates a parallel exam (all students sit the exam at the same time).
                        Non 0 values indicate the duration, in minutes, for a serial exam session (students
                        allocated to tracks and sit the exam on track after the other)
    }
    locations [{
      Array of object:

```

```

    locationName string
    locationDesc string
    room         string
    buildingCode string 1 to 45 chars
                        Code for the Building
    catalogueUrl string
    details       string
  }}
  module {
    altc string 0 to 64 chars
          Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
  }
  moduleDescription string
  moduleId           string
  moduleUrl          string
  offer {
    altc string 0 to 255 chars
          Alt code for the Offer
    n     string 1 to 255 chars
          Name for the Offer
    user1 string
    user2 string
  }
  startTime string
  streamId   string
  uniqueId   string
}}
bookingItems [{
  Array of object:
    uniqueId           string
    bookingId          string
    bookingDescription string
    departmentHostKey  string
    departmentName     string
    startTime          string
    endTime            string
    bookingDurationMins string
    allDayBooking      string
    locations [{
      Array of object:
        locationName string
        locationDesc string
        room         string
        buildingCode string 1 to 45 chars
                        Code for the Building
        catalogueUrl string
        details       string
      }]
    moduleId           string
    moduleDescription string
    moduleUrl          string
    streamId           string

```

For Classic and Takehome Exams this is the start time of the Exam Sessions. For Serial Exams this is the start time of a Student's Track Slot.

```

bookingProperties {
    allDay                string
    departmentHostKey    string
    nopublishstudent      boolean
    notes                 string
    typeCode              string
    user1                 string
    user2                 string
    user3                 string
    user4                 string
    userFields [{
        Array of object:
        index number >=1
                                User field number
        value string Value stored in the user field
        type  string A description of the type of the value
        min   number optional, minimum value (applied to user fields of type 'int')
        max   number optional, maximum value (applied to user fields of type 'int')
    }]
}
module {
    altc string 0 to 64 chars
                                Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
offer {
    altc string 0 to 255 chars
                                Alt code for the Offer
    n     string 1 to 255 chars
                                Name for the Offer
    user1 string
    user2 string
}
tags [{
    Array of object:
    n string
}]
academics [{
    Array of object:
    fullName string Name of the Staff member
    email     string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role      string The role performed by the Staff member for the Activity or Booking
}]
staffAttendees [string] 1 to 45 chars
                                Unique code to identify the Staff

staffAttendeeObjects [{
    Array of object:
    c string 1 to 45 chars
                                Unique code to identify the staff member
    n string 1 to 100 chars
                                Name of the staff memver
}]
studentAttendees [{
    Array of object:

```



```

        c string 1 to 255 chars
            Unique code to identify the student
        n string 1 to 255 chars
            Student name
    }]
}]
sessionItems [{
    Array of object:
        sessionId      string
        sessionName    string
        startDate      string
        startTime      string
        endDate        string
        endTime        string
        sessionLocation {
            code        string
            building    string
            campus      string
        }
        staffRole {
            code string
            name string
        }
        meetingStartTime string
        meetingEndTime   string
        meetingNotes     string
    }]
}]
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter

```

- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

37.4 GET /timetable/classicExam/{c}

Get timetable for a Classic Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the Classic Exam

RESPONSE

STATUS CODE - 200: An array of Classic Exam Instances. When no Classic Exam Instances are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```
{
  classicExamInstance {
    name string
    id   string
  }
  status string
}
```

```

timePeriod {
  startDate string Date(YYYY-MM-DD)
  endDate   string Date(YYYY-MM-DD)
}
schedule [{
  Array of object:
    date string
    dateDescription string
    week string
    items [{
      Array of object:
        uniqueId string
        activityId string
        activityName string
        activityDescription string
        departmentHostKey string
        departmentName string
        startTime string
        endTime string
        activityDurationMins string
        allDayActivity string
        locations [{
          Array of object:
            locationName string
            locationDesc string
            room string
            buildingCode string 1 to 45 chars
                                Code for the Building
            catalogueUrl string
            details string
        }]
        moduleId string
        moduleDescription string
        moduleUrl string
        bOptional boolean
        streamId string
        activityProperties {
          allDay string
          altc string 1 to 64 chars
                    Alt code of the Module to which the Activity belongs
          optional string
          departmentHostKey string
          exceptionGroup string
          friendlyName string
          nopublishstaff string
          nopublishstudent string
          notes string
          planSize number The plan size
          ready string
          repeatgroup string Name of the repeat group to which this event's Activity belongs
          repeatOf string The unique code to identify the activity to which this event's activity is a repeat of
          repeat string [[ Deprecated – please use "repeatOf" instead ]] The unique code to identify the
                        activity to which this event's activity is a repeat of
          size number The plan or actual size
          stuCount number >=0
                    The actual number of students in the activity
          typeCode string
          user1 string

```

```

        user2          string
        user3          string
        user4          string
        user5          string
        user6          string
        user7          string
        virtual        string
        meetingRequired boolean
        meetingUrl     string
    }
    module {
        altc string 0 to 64 chars
            Alt Code
        user1 string 0 to 256 chars
        user2 string 0 to 256 chars
        user3 string 0 to 256 chars
        user4 string 0 to 256 chars
    }
    offer {
        altc string 0 to 255 chars
            Alt code for the Offer
        n string 1 to 255 chars
            Name for the Offer

        user1 string
        user2 string
    }
    tags [{
        Array of object:
        n string
    }]
    academics [{
        Array of object:
        fullName string Name of the Staff member
        email string Email address for the Staff member
        phoneNumber string Phone number for the Staff member
        role string The role performed by the Staff member for the Activity or Booking
    }]
    activityGroup {
        name string
        type string
    }
    students [{
        Array of object:
        code string 0 to 255 chars
            Unique code to identify the Student
        name string 0 to 255 chars
            Name of Student
        email string 0 to 600 chars
            Email address for Student
    }]
    examItems [{
        Array of object:
        academics [{
            Array of object:
            fullName string Name of the Staff member
            email string Email address for the Staff member
            phoneNumber string Phone number for the Staff member

```

```

    role          string  The role performed by the Staff member for the Activity or Booking
  }}
  allDayActivity          string
  assessmentPeriodCode    string
  departmentHostKey       string
  departmentName          string
  endTime                 string  For Classic and Takehome Exams this is the end time of the
                                   Exam Sessions. For Serial Exams this is the end time of a
                                   Student's Track Slot.

  examCode                string
  examDescription          string
  examDurationMins        number
  examId                  string
  examName                string
  examProperties {
    allDay                string
    altc                  string  1 to 64 chars
                                   A unique identifier for the Module to which the Exam belongs.
    departmentHostKey     string
    exceptionGroup        string
    friendlyName          string
    nopublishstaff        string
    nopublishstudent      string
    notes                  string
    planSize              number  The plan size
    ready                  string
    size                  number  The plan or actual size
    typeCode              string  Unique code to identify the Activity Type
    user1                  string
    user2                  string
    user3                  string
    virtual                string
    sharing                string
    splittable             string
    minRoomSize            number  Minimum number of attendees in a room
    exclusiveStaff         string
    trackSlotMinutes       number  A value of 0 indicates a parallel exam (all students sit the exam at the same time).
                                   Non 0 values indicate the duration, in minutes, for a serial exam session (students
                                   allocated to tracks and sit the exam on track after the other)
  }
  locations [{
    Array of object:
    locationName  string
    locationDesc  string
    room          string
    buildingCode  string  1 to 45 chars
                                   Code for the Building
    catalogueUrl  string
    details       string
  }]
  module {
    altc  string  0 to 64 chars
                                   Alt Code
    user1 string  0 to 256 chars
    user2 string  0 to 256 chars
    user3 string  0 to 256 chars
    user4 string  0 to 256 chars
  }
  moduleDescription          string

```

```

moduleId                string
moduleUrl               string
offer {
    altc string 0 to 255 chars
                Alt code for the Offer
    n     string 1 to 255 chars
                Name for the Offer
    user1 string
    user2 string
}
startTime               string
                                For Classic and Takehome Exams this is the start time of the
                                Exam Sessions. For Serial Exams this is the start time of a
                                Student's Track Slot.

streamId                string
uniqueId                string
students [{
    Array of object:
        code string 0 to 255 chars
                                Unique code to identify the Student
        name  string 0 to 255 chars
                                Name of Student
        email string 0 to 600 chars
                                Email address for Student
    }]
}]
bookingItems [{
    Array of object:
        uniqueId                string
        bookingId               string
        bookingDescription       string
        departmentHostKey        string
        departmentName           string
        startTime                string
        endTime                  string
        bookingDurationMins      string
        allDayBooking            string
        locations [{
            Array of object:
                locationName string
                locationDesc string
                room           string
                buildingCode string 1 to 45 chars
                                Code for the Building
                catalogueUrl string
                details        string
            }]
        moduleId                string
        moduleDescription        string
        moduleUrl                string
        streamId                 string
        bookingProperties {
            allDay                string
            departmentHostKey     string
            nopublishstudent       boolean
            notes                  string
            typeCode               string
            user1                  string
            user2                  string
        }
    }
}

```

```

user3                                string
user4                                string
userFields [{
  Array of object:
    index number >=1
                                User field number
    value string Value stored in the user field
    type string A description of the type of the value
    min number optional, minimum value (applied to user fields of type 'int')
    max number optional, maximum value (applied to user fields of type 'int')
  }]
}
module {
  altc string 0 to 64 chars
                                Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
offer {
  altc string 0 to 255 chars
                                Alt code for the Offer
  n string 1 to 255 chars
                                Name for the Offer
  user1 string
  user2 string
}
tags [{
  Array of object:
    n string
}]
academics [{
  Array of object:
    fullName string Name of the Staff member
    email string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role string The role performed by the Staff member for the Activity or Booking
}]
staffAttendees [string] 1 to 45 chars
                                Unique code to identify the Staff

staffAttendeeObjects [{
  Array of object:
    c string 1 to 45 chars
                                Unique code to identify the staff member
    n string 1 to 100 chars
                                Name of the staff memver
}]
studentAttendees [{
  Array of object:
    c string 1 to 255 chars
                                Unique code to identify the student
    n string 1 to 255 chars
                                Student name
}]
}
sessionItems [{
  Array of object:

```

```

    sessionId      string
    sessionName    string
    startDate      string
    startTime      string
    endDate        string
    endTime        string
    sessionLocation {
        code       string
        building    string
        campus      string
    }
    staffRole {
        code string
        name string
    }
    meetingStartTime string
    meetingEndTime    string
    meetingNotes       string
    }
    }
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant

```


Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

37.5 GET /timetable/takehomeExam/{c}

Get timetable for a Takehome Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the Takehome Exam

RESPONSE

STATUS CODE - 200: An array of Takehome Exam Instances. When no Takehome Exam Instances are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```
{
  takehomeExamInstance {
    name string
    id   string
  }
  status string
  timePeriod {
    startDate string Date(YYYY-MM-DD)
    endDate   string Date(YYYY-MM-DD)
  }
  schedule [{
    Array of object:
    date string
    dateDescription string
  }
}
```

```

week                                string
items [{
  Array of object:
    uniqueId                        string
    activityId                      string
    activityName                    string
    activityDescription              string
    departmentHostKey               string
    departmentName                  string
    startTime                       string
    endTime                         string
    activityDurationMins            string
    allDayActivity                  string
    locations [{
      Array of object:
        locationName string
        locationDesc string
        room          string
        buildingCode string 1 to 45 chars
                                Code for the Building
        catalogueUrl string
        details       string
      }]
    moduleId                string
    moduleDescription        string
    moduleUrl                string
    bOptional                boolean
    streamId                 string
    activityProperties {
      allDay                string
      altc                  string 1 to 64 chars
                                Alt code of the Module to which the Activity belongs
      optional              string
      departmentHostKey    string
      exceptionGroup        string
      friendlyName          string
      nopublishstaff        string
      nopublishstudent      string
      notes                  string
      planSize               number The plan size
      ready                  string
      repeatgroup            string Name of the repeat group to which this event's Activity belongs
      repeatOf               string The unique code to identify the activity to which this event's activity is a repeat of
      repeat                 string [[ Deprecated – please use "repeatOf" instead ]] The unique code to identify the
                                activity to which this event's activity is a repeat of
      size                   number The plan or actual size
      stuCount               number >=0
                                The actual number of students in the activity
      typeCode               string
      user1                  string
      user2                  string
      user3                  string
      user4                  string
      user5                  string
      user6                  string
      user7                  string
      virtual                string
      meetingRequired        boolean

```

```

        meetingUrl      string
    }
    module {
        altc string 0 to 64 chars
                Alt Code
        user1 string 0 to 256 chars
        user2 string 0 to 256 chars
        user3 string 0 to 256 chars
        user4 string 0 to 256 chars
    }
    offer {
        altc string 0 to 255 chars
                Alt code for the Offer
        n string 1 to 255 chars
                Name for the Offer
        user1 string
        user2 string
    }
    tags [{
        Array of object:
        n string
    }]
    academics [{
        Array of object:
        fullName string Name of the Staff member
        email string Email address for the Staff member
        phoneNumber string Phone number for the Staff member
        role string The role performed by the Staff member for the Activity or Booking
    }]
    activityGroup {
        name string
        type string
    }
    students [{
        Array of object:
        code string 0 to 255 chars
                Unique code to identify the Student
        name string 0 to 255 chars
                Name of Student
        email string 0 to 600 chars
                Email address for Student
    }]
    examItems [{
        Array of object:
        academics [{
            Array of object:
            fullName string Name of the Staff member
            email string Email address for the Staff member
            phoneNumber string Phone number for the Staff member
            role string The role performed by the Staff member for the Activity or Booking
        }]
        allDayActivity string
        assessmentPeriodCode string
        departmentHostKey string
        departmentName string
        endTime string
    }]

```

For Classic and Takehome Exams this is the end time of the Exam Sessions. For Serial Exams this is the end time of a

```

examCode                string
examDescription          string
examDurationMins        number
examId                  string
examName                string
examProperties {
  allDay                string
  altc                  string 1 to 64 chars
                        A unique identifier for the Module to which the Exam belongs.
  departmentHostKey     string
  exceptionGroup        string
  friendlyName          string
  nopublishstaff        string
  nopublishstudent      string
  notes                 string
  planSize              number The plan size
  ready                 string
  size                  number The plan or actual size
  typeCode              string Unique code to identify the Activity Type
  user1                 string
  user2                 string
  user3                 string
  virtual               string
  sharing               string
  splittable            string
  minRoomSize           number Minimum number of attendees in a room
  exclusiveStaff        string
  trackSlotMinutes      number A value of 0 indicates a parallel exam (all students sit the exam at the same time).
                          Non 0 values indicate the duration, in minutes, for a serial exam session (students
                          allocated to tracks and sit the exam on track after the other)
}
locations [{
  Array of object:
    locationName string
    locationDesc string
    room          string
    buildingCode  string 1 to 45 chars
                  Code for the Building
    catalogueUrl  string
    details       string
}]
module {
  altc  string 0 to 64 chars
        Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
moduleDescription      string
moduleId               string
moduleUrl              string
offer {
  altc  string 0 to 255 chars
        Alt code for the Offer
  n     string 1 to 255 chars
        Name for the Offer
}

```

```

    user1 string
    user2 string
}
startTime string
streamId string
uniqueId string
students [{
Array of object:
    code string 0 to 255 chars
                                Unique code to identify the Student
    name string 0 to 255 chars
                                Name of Student
    email string 0 to 600 chars
                                Email address for Student
}]
}]
bookingItems [{
Array of object:
    uniqueId string
    bookingId string
    bookingDescription string
    departmentHostKey string
    departmentName string
    startTime string
    endTime string
    bookingDurationMins string
    allDayBooking string
    locations [{
Array of object:
        locationName string
        locationDesc string
        room string
        buildingCode string 1 to 45 chars
                                Code for the Building
        catalogueUrl string
        details string
    }]
    moduleId string
    moduleDescription string
    moduleUrl string
    streamId string
    bookingProperties {
        allDay string
        departmentHostKey string
        nopublishstudent boolean
        notes string
        typeCode string
        user1 string
        user2 string
        user3 string
        user4 string
        userFields [{
Array of object:
            index number >=1
                                User field number
            value string Value stored in the user field

```

For Classic and Takehome Exams this is the start time of the Exam Sessions. For Serial Exams this is the start time of a Student's Track Slot.

```

        type    string    A description of the type of the value
        min     number    optional, minimum value (applied to user fields of type 'int')
        max     number    optional, maximum value (applied to user fields of type 'int')
    }]
}
module {
    altc    string    0 to 64 chars
                Alt Code
    user1    string    0 to 256 chars
    user2    string    0 to 256 chars
    user3    string    0 to 256 chars
    user4    string    0 to 256 chars
}
offer {
    altc    string    0 to 255 chars
                Alt code for the Offer
    n       string    1 to 255 chars
                Name for the Offer

    user1    string
    user2    string
}
tags [{
    Array of object:
    n    string
}]
academics [{
    Array of object:
    fullName    string    Name of the Staff member
    email        string    Email address for the Staff member
    phoneNumber    string    Phone number for the Staff member
    role          string    The role performed by the Staff member for the Activity or Booking
}]
staffAttendees          [string]          1 to 45 chars
                                Unique code to identify the Staff

staffAttendeeObjects [{
    Array of object:
    c    string    1 to 45 chars
                Unique code to identify the staff member
    n    string    1 to 100 chars
                Name of the staff memver
}]
studentAttendees [{
    Array of object:
    c    string    1 to 255 chars
                Unique code to identify the student
    n    string    1 to 255 chars
                Student name
}]
}]
sessionItems [{
    Array of object:
    sessionId        string
    sessionName      string
    startDate        string
    startTime        string
    endDate          string
    endTime          string
    sessionLocation {

```

```

        code      string
        building  string
        campus    string
    }
    staffRole {
        code string
        name string
    }
    meetingStartTime string
    meetingEndTime    string
    meetingNotes       string
    }]
    }]
}

```

37.6 GET /timetable/serialExam/{c}

Get timetable for a Serial Exam

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the Serial Exam

RESPONSE

STATUS CODE - 200: An array of Serial Exam Instances. When no Serial Exam Instances are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```

{
  serialExamInstance {
    name string
    id   string
  }
  status string
  timePeriod {
    startDate string Date(YYYY-MM-DD)
    endDate   string Date(YYYY-MM-DD)
  }
  schedule [{
    Array of object:
    date string
    dateDescription string
    week string
    items [{
      Array of object:
      uniqueId string
      activityId string
      activityName string
      activityDescription string
      departmentHostKey string
      departmentName string
    }
  }
}

```

```

startTime string
endTime string
activityDurationMins string
allDayActivity string
locations [{
  Array of object:
    locationName string
    locationDesc string
    room string
    buildingCode string 1 to 45 chars
                        Code for the Building
    catalogueUrl string
    details string
}]
moduleId string
moduleDescription string
moduleUrl string
bOptional boolean
streamId string
activityProperties {
  allDay string
  altc string 1 to 64 chars
                        Alt code of the Module to which the Activity belongs
  optional string
  departmentHostKey string
  exceptionGroup string
  friendlyName string
  nopublishstaff string
  nopublishstudent string
  notes string
  planSize number The plan size
  ready string
  repeatgroup string Name of the repeat group to which this event's Activity belongs
  repeatOf string The unique code to identify the activity to which this event's activity is a repeat of
  repeat string [[ Deprecated – please use "repeatOf" instead ]] The unique code to identify the
                        activity to which this event's activity is a repeat of
  size number The plan or actual size
  stuCount number >=0
                        The actual number of students in the activity
  typeCode string
  user1 string
  user2 string
  user3 string
  user4 string
  user5 string
  user6 string
  user7 string
  virtual string
  meetingRequired boolean
  meetingUrl string
}
module {
  altc string 0 to 64 chars
                        Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars

```



```

    }
    offer {
        altc string 0 to 255 chars
            Alt code for the Offer
        n string 1 to 255 chars
            Name for the Offer
        user1 string
        user2 string
    }
    tags [{
        Array of object:
        n string
    }]
    academics [{
        Array of object:
        fullName string Name of the Staff member
        email string Email address for the Staff member
        phoneNumber string Phone number for the Staff member
        role string The role performed by the Staff member for the Activity or Booking
    }]
    activityGroup {
        name string
        type string
    }
    students [{
        Array of object:
        code string 0 to 255 chars
            Unique code to identify the Student
        name string 0 to 255 chars
            Name of Student
        email string 0 to 600 chars
            Email address for Student
    }]
}]
examItems [{
    Array of object:
    academics [{
        Array of object:
        fullName string Name of the Staff member
        email string Email address for the Staff member
        phoneNumber string Phone number for the Staff member
        role string The role performed by the Staff member for the Activity or Booking
    }]
    allDayActivity string
    assessmentPeriodCode string
    departmentHostKey string
    departmentName string
    endTime string
        For Classic and Takehome Exams this is the end time of the
        Exam Sessions. For Serial Exams this is the end time of a
        Student's Track Slot.

    examCode string
    examDescription string
    examDurationMins number
    examId string
    examName string
    examProperties {
        allDay string
        altc string 1 to 64 chars
    }
}

```

```

    departmentHostKey string      A unique identifier for the Module to which the Exam belongs.
    exceptionGroup    string
    friendlyName      string
    nopublishstaff    string
    nopublishstudent  string
    notes             string
    planSize          number      The plan size
    ready             string
    size              number      The plan or actual size
    typeCode          string      Unique code to identify the Activity Type
    user1             string
    user2             string
    user3             string
    virtual           string
    sharing           string
    splittable        string
    minRoomSize       number      Minimum number of attendees in a room
    exclusiveStaff    string
    trackSlotMinutes  number      A value of 0 indicates a parallel exam (all students sit the exam at the same time).
                                Non 0 values indicate the duration, in minutes, for a serial exam session (students
                                allocated to tracks and sit the exam on track after the other)
}
locations [{
    Array of object:
        locationName string
        locationDesc  string
        room          string
        buildingCode  string 1 to 45 chars
                                Code for the Building
        catalogueUrl  string
        details       string
}]
module {
    altc string 0 to 64 chars
                                Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
moduleDescription string
moduleId          string
moduleUrl         string
offer {
    altc string 0 to 255 chars
                                Alt code for the Offer
    n    string 1 to 255 chars
                                Name for the Offer
    user1 string
    user2 string
}
startTime string      For Classic and Takehome Exams this is the start time of the
                        Exam Sessions. For Serial Exams this is the start time of a
                        Student's Track Slot.

streamId          string
uniqueId          string
students [{
    Array of object:

```

```

    code    string 0 to 255 chars
              Unique code to identify the Student
    name    string 0 to 255 chars
              Name of Student
    email   string 0 to 600 chars
              Email address for Student
  }}
}]
bookingItems [{
  Array of object:
    uniqueId      string
    bookingId     string
    bookingDescription string
    departmentHostKey string
    departmentName string
    startTime     string
    endTime       string
    bookingDurationMins string
    allDayBooking string
    locations [{
      Array of object:
        locationName string
        locationDesc string
        room          string
        buildingCode string 1 to 45 chars
                          Code for the Building
        catalogueUrl string
        details       string
      }]
    moduleId      string
    moduleDescription string
    moduleUrl     string
    streamId      string
    bookingProperties {
      allDay      string
      departmentHostKey string
      nopublishstudent boolean
      notes       string
      typeCode    string
      user1       string
      user2       string
      user3       string
      user4       string
      userFields [{
        Array of object:
          index number >=1
                          User field number
          value string Value stored in the user field
          type  string A description of the type of the value
          min   number optional, minimum value (applied to user fields of type 'int')
          max   number optional, maximum value (applied to user fields of type 'int')
        }]
      }
    }
  module {
    altc string 0 to 64 chars
              Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
  }
}

```

```

    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
offer {
    altc string 0 to 255 chars
           Alt code for the Offer
    n string 1 to 255 chars
           Name for the Offer
    user1 string
    user2 string
}
tags [{
Array of object:
    n string
}]
academics [{
Array of object:
    fullName string Name of the Staff member
    email string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role string The role performed by the Staff member for the Activity or Booking
}]
staffAttendees [string] 1 to 45 chars
                       Unique code to identify the Staff

staffAttendeeObjects [{
Array of object:
    c string 1 to 45 chars
           Unique code to identify the staff member
    n string 1 to 100 chars
           Name of the staff memver
}]
studentAttendees [{
Array of object:
    c string 1 to 255 chars
           Unique code to identify the student
    n string 1 to 255 chars
           Student name
}]
}
sessionItems [{
Array of object:
    sessionId string
    sessionName string
    startDate string
    startTime string
    endDate string
    endTime string
    sessionLocation {
        code string
        building string
        campus string
    }
    staffRole {
        code string
        name string
    }
    meetingStartTime string
    meetingEndTime string
}

```

```

        meetingNotes      string
    }
}
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database

```

* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

37.7 GET /timetable/course/{cc}

Get timetable for a course

Returns timetabled activities for today or for the requested date range, provided that the range is within the current academic year.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*cc	string 1 to 45 chars	Unique code to identify Courses

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
start	string 10 to 10 chars	Start date in YYYY-MM-DD format
end	string 10 to 10 chars	End date in YYYY-MM-DD format

RESPONSE

STATUS CODE - 200: An array of activities. When no activities are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```
{
  status string
  course {
    name string
    id string
  }
  schedule [{
    Array of object:
    date string
    dateDescription string
    week string
    items [{
    Array of object:
    uniqueId string
    activityId string
    activityName string
    activityDescription string
    departmentHostKey string
    departmentName string
    startTime string
    endTime string
  }
  }
}
```

```

activityDurationMins      string
allDayActivity            string
locations [{
  Array of object:
    locationName string
    locationDesc string
    room          string
    buildingCode  string 1 to 45 chars
                        Code for the Building
    catalogueUrl  string
    details       string
}]
moduleId              string
moduleDescription     string
moduleUrl             string
bOptional             boolean
streamId              string
activityProperties {
  allDay              string
  altc                string 1 to 64 chars
                        Alt code of the Module to which the Activity belongs
  optional            string
  departmentHostKey  string
  exceptionGroup      string
  friendlyName        string
  nopublishstaff      string
  nopublishstudent    string
  notes               string
  planSize            number The plan size
  ready               string
  repeatgroup         string Name of the repeat group to which this event's Activity belongs
  repeatOf            string The unique code to identify the activity to which this event's activity is a repeat of
  repeat              string [[ Deprecated – please use "repeatOf" instead ]] The unique code to identify the
                        activity to which this event's activity is a repeat of
  size                number The plan or actual size
  stuCount            number >=0
                        The actual number of students in the activity
  typeCode            string
  user1               string
  user2               string
  user3               string
  user4               string
  user5               string
  user6               string
  user7               string
  virtual             string
  meetingRequired      boolean
  meetingUrl          string
}
module {
  altc string 0 to 64 chars
        Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
offer {

```

```

    altc    string 0 to 255 chars
              Alt code for the Offer
    n       string 1 to 255 chars
              Name for the Offer
    user1   string
    user2   string
  }
  tags [{
    Array of object:
    n string
  }]
  academics [{
    Array of object:
    fullName    string Name of the Staff member
    email       string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role        string The role performed by the Staff member for the Activity or Booking
  }]
  activityGroup {
    name string
    type string
  }
  students [{
    Array of object:
    code    string 0 to 255 chars
              Unique code to identify the Student
    name    string 0 to 255 chars
              Name of Student
    email   string 0 to 600 chars
              Email address for Student
  }]
}]
examItems [{
  Array of object:
  academics [{
    Array of object:
    fullName    string Name of the Staff member
    email       string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role        string The role performed by the Staff member for the Activity or Booking
  }]
  allDayActivity          string
  assessmentPeriodCode    string
  departmentHostKey       string
  departmentName          string
  endTime                 string
                                For Classic and Takehome Exams this is the end time of the
                                Exam Sessions. For Serial Exams this is the end time of a
                                Student's Track Slot.

  examCode                string
  examDescription          string
  examDurationMins        number
  examId                  string
  examName                 string
  examProperties {
    allDay                string
    altc                  string 1 to 64 chars
                                A unique identifier for the Module to which the Exam belongs.
    departmentHostKey     string

```



```

exceptionGroup      string
friendlyName        string
nopublishstaff      string
nopublishstudent    string
notes               string
planSize            number  The plan size
ready               string
size                number  The plan or actual size
typeCode            string  Unique code to identify the Activity Type
user1               string
user2               string
user3               string
virtual             string
sharing             string
splittable          string
minRoomSize         number  Minimum number of attendees in a room
exclusiveStaff       string
trackSlotMinutes    number  A value of 0 indicates a parallel exam (all students sit the exam at the same time).
                        Non 0 values indicate the duration, in minutes, for a serial exam session (students
                        allocated to tracks and sit the exam on track after the other)
}
locations [{
Array of object:
    locationName  string
    locationDesc  string
    room          string
    buildingCode  string  1 to 45 chars
                        Code for the Building
    catalogueUrl  string
    details       string
}]
module {
    altc  string  0 to 64 chars
                Alt Code
    user1 string  0 to 256 chars
    user2 string  0 to 256 chars
    user3 string  0 to 256 chars
    user4 string  0 to 256 chars
}
moduleDescription      string
moduleId                string
moduleUrl               string
offer {
    altc  string  0 to 255 chars
                Alt code for the Offer
    n      string  1 to 255 chars
                Name for the Offer
    user1  string
    user2  string
}
startTime                string  For Classic and Takehome Exams this is the start time of the
                        Exam Sessions. For Serial Exams this is the start time of a
                        Student's Track Slot.

    streamId              string
    uniqueId              string
}]
bookingItems [{
Array of object:
    uniqueId              string

```

```

bookingId          string
bookingDescription  string
departmentHostKey   string
departmentName      string
startTime           string
endTime             string
bookingDurationMins string
allDayBooking       string
locations [{
  Array of object:
    locationName string
    locationDesc  string
    room          string
    buildingCode  string 1 to 45 chars
                        Code for the Building
    catalogueUrl  string
    details       string
}]
moduleId          string
moduleDescription  string
moduleUrl         string
streamId          string
bookingProperties {
  allDay          string
  departmentHostKey string
  nopublishstudent boolean
  notes           string
  typeCode        string
  user1           string
  user2           string
  user3           string
  user4           string
  userFields [{
    Array of object:
      index number >=1
                        User field number
      value string Value stored in the user field
      type  string A description of the type of the value
      min   number optional, minimum value (applied to user fields of type 'int')
      max   number optional, maximum value (applied to user fields of type 'int')
    }]
  }
}
module {
  altc string 0 to 64 chars
        Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
offer {
  altc string 0 to 255 chars
        Alt code for the Offer
  n     string 1 to 255 chars
        Name for the Offer
  user1 string
  user2 string
}

```

```

tags [{
  Array of object:
    n string
}]
academics [{
  Array of object:
    fullName      string  Name of the Staff member
    email          string  Email address for the Staff member
    phoneNumber    string  Phone number for the Staff member
    role           string  The role performed by the Staff member for the Activity or Booking
}]
staffAttendees      [string]      1 to 45 chars
                                   Unique code to identify the Staff

staffAttendeeObjects [{
  Array of object:
    c string 1 to 45 chars
                                   Unique code to identify the staff member
    n string 1 to 100 chars
                                   Name of the staff memver
}]
studentAttendees [{
  Array of object:
    c string 1 to 255 chars
                                   Unique code to identify the student
    n string 1 to 255 chars
                                   Student name
}]
}]
sessionItems [{
  Array of object:
    sessionId      string
    sessionName    string
    startDate      string
    startTime      string
    endDate        string
    endTime        string
    sessionLocation {
      code         string
      building     string
      campus       string
    }
    staffRole {
      code string
      name string
    }
    meetingStartTime string
    meetingEndTime   string
    meetingNotes     string
  }]
}]
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                   Error codes:

```

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

37.8 GET /timetable/module/{c}

Get timetable for one module

Returns timetabled activities for today or for the requested date range, provided that the range is within the current academic year.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 50 chars	Unique code to identify the module

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
start	string 10 to 10 chars	Start date in YYYY-MM-DD format
end	string 10 to 10 chars	End date in YYYY-MM-DD format

RESPONSE

STATUS CODE - 200: An array of activities. When no activities are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```
{
  status string
  module {
    name string
    id string
  }
  schedule [{
    Array of object:
    date string
    dateDescription string
    week string
    items [{
      Array of object:
      uniqueId string
      activityId string
      activityName string
      activityDescription string
      departmentHostKey string
      departmentName string
      startTime string
      endTime string
      activityDurationMins string
      allDayActivity string
      locations [{
        Array of object:
        locationName string
        locationDesc string
        room string
        buildingCode string 1 to 45 chars
                                Code for the Building
        catalogueUrl string
      ]
    ]
  ]
}
```

```

    details      string
  ]]
  moduleId      string
  moduleDescription string
  moduleUrl     string
  bOptional     boolean
  streamId      string
  activityProperties {
    allDay      string
    altc        string 1 to 64 chars
                        Alt code of the Module to which the Activity belongs
    optional    string
    departmentHostKey string
    exceptionGroup string
    friendlyName string
    nopublishstaff string
    nopublishstudent string
    notes       string
    planSize    number The plan size
    ready       string
    repeatgroup string Name of the repeat group to which this event's Activity belongs
    repeatOf    string The unique code to identify the activity to which this event's activity is a repeat of
    repeat      string [[ Deprecated – please use "repeatOf" instead ]] The unique code to identify the
                        activity to which this event's activity is a repeat of
    size        number The plan or actual size
    stuCount    number >=0
                        The actual number of students in the activity
    typeCode    string
    user1       string
    user2       string
    user3       string
    user4       string
    user5       string
    user6       string
    user7       string
    virtual     string
    meetingRequired boolean
    meetingUrl  string
  }
  module {
    altc string 0 to 64 chars
        Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
  }
  offer {
    altc string 0 to 255 chars
        Alt code for the Offer
    n string 1 to 255 chars
        Name for the Offer
    user1 string
    user2 string
  }
  tags [{
    Array of object:
    n string

```

```

    ]]
    academics [{
      Array of object:
        fullName    string  Name of the Staff member
        email        string  Email address for the Staff member
        phoneNumber  string  Phone number for the Staff member
        role         string  The role performed by the Staff member for the Activity or Booking
    }]
    activityGroup {
      name string
      type string
    }
    students [{
      Array of object:
        code    string  0 to 255 chars
                        Unique code to identify the Student
        name    string  0 to 255 chars
                        Name of Student
        email   string  0 to 600 chars
                        Email address for Student
    }]
  }]
  examItems [{
    Array of object:
      academics [{
        Array of object:
          fullName    string  Name of the Staff member
          email        string  Email address for the Staff member
          phoneNumber  string  Phone number for the Staff member
          role         string  The role performed by the Staff member for the Activity or Booking
        }]
      allDayActivity          string
      assessmentPeriodCode    string
      departmentHostKey       string
      departmentName          string
      endTime                 string
                              For Classic and Takehome Exams this is the end time of the
                              Exam Sessions. For Serial Exams this is the end time of a
                              Student's Track Slot.

      examCode                string
      examDescription          string
      examDurationMins         number
      examId                   string
      examName                 string
      examProperties {
        allDay                string
        altc                  string  1 to 64 chars
                              A unique identifier for the Module to which the Exam belongs.
        departmentHostKey     string
        exceptionGroup         string
        friendlyName           string
        nopublishstaff         string
        nopublishstudent       string
        notes                  string
        planSize                number  The plan size
        ready                  string
        size                   number  The plan or actual size
        typeCode               string  Unique code to identify the Activity Type
        user1                  string
      }
    }
  ]

```

```

        user2          string
        user3          string
        virtual        string
        sharing        string
        splittable      string
        minRoomSize    number Minimum number of attendees in a room
        exclusiveStaff string
        trackSlotMinutes number A value of 0 indicates a parallel exam (all students sit the exam at the same time).
                                Non 0 values indicate the duration, in minutes, for a serial exam session (students
                                allocated to tracks and sit the exam on track after the other)
    }
    locations [{
Array of object:
        locationName string
        locationDesc  string
        room          string
        buildingCode  string 1 to 45 chars
                                Code for the Building
        catalogueUrl  string
        details       string
    }]
    module {
        altc string 0 to 64 chars
                                Alt Code
        user1 string 0 to 256 chars
        user2 string 0 to 256 chars
        user3 string 0 to 256 chars
        user4 string 0 to 256 chars
    }
    moduleDescription string
    moduleId           string
    moduleUrl          string
    offer {
        altc string 0 to 255 chars
                                Alt code for the Offer
        n    string 1 to 255 chars
                                Name for the Offer
        user1 string
        user2 string
    }
    startTime          string For Classic and Takehome Exams this is the start time of the
                                Exam Sessions. For Serial Exams this is the start time of a
                                Student's Track Slot.

    streamId           string
    uniqueId           string
    }]
    bookingItems [{
Array of object:
        uniqueId          string
        bookingId         string
        bookingDescription string
        departmentHostKey string
        departmentName    string
        startTime          string
        endTime           string
        bookingDurationMins string
        allDayBooking      string
        locations [{
Array of object:

```



```

    locationName string
    locationDesc string
    room         string
    buildingCode string 1 to 45 chars
                        Code for the Building
    catalogueUrl string
    details       string
  ]]
  moduleId                string
  moduleDescription       string
  moduleUrl               string
  streamId                string
  bookingProperties {
    allDay                string
    departmentHostKey     string
    nopublishstudent      boolean
    notes                  string
    typeCode              string
    user1                  string
    user2                  string
    user3                  string
    user4                  string
    userFields [{
      Array of object:
        index number >=1
                        User field number
        value string Value stored in the user field
        type  string A description of the type of the value
        min   number optional, minimum value (applied to user fields of type 'int')
        max   number optional, maximum value (applied to user fields of type 'int')
    }]
  }
  module {
    altc string 0 to 64 chars
        Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
  }
  offer {
    altc string 0 to 255 chars
        Alt code for the Offer
    n     string 1 to 255 chars
        Name for the Offer
    user1 string
    user2 string
  }
  tags [{
    Array of object:
      n string
  }]
  academics [{
    Array of object:
      fullName string Name of the Staff member
      email     string Email address for the Staff member
      phoneNumber string Phone number for the Staff member
      role       string The role performed by the Staff member for the Activity or Booking
  }]

```

```

    }}
    staffAttendees          [string]          1 to 45 chars
                                         Unique code to identify the Staff

    staffAttendeeObjects [{
Array of object:
        c string 1 to 45 chars
                Unique code to identify the staff member
        n string 1 to 100 chars
                Name of the staff memver
    }}
    studentAttendees [{
Array of object:
        c string 1 to 255 chars
                Unique code to identify the student
        n string 1 to 255 chars
                Student name
    }}
    ]]
    sessionItems [{
Array of object:
        sessionId           string
        sessionName         string
        startDate           string
        startTime           string
        endDate             string
        endTime             string
        sessionLocation {
            code            string
            building        string
            campus          string
        }
        staffRole {
            code string
            name string
        }
        meetingStartTime    string
        meetingEndTime      string
        meetingNotes        string
    }]
    }]
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant

```

Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

37.9 GET /timetable/offer/{o}

Get timetable for one offer

Returns timetabled activities for today or for the requested date range, provided that the range is within the current academic year.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*o	string 1 to 255 chars	Name to identify the Offer

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
cq	string 1 to 50 chars	Unique code to identify the module
useAltC	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
start	string 10 to 10 chars	Start date in YYYY-MM-DD format
end	string 10 to 10 chars	End date in YYYY-MM-DD format

RESPONSE

STATUS CODE - 200: An array of activities. When no activities are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```
{
  status
  offer {
    name string
    id string
  }
  schedule [{
    Array of object:
    date string
    dateDescription string
    week string
    items [{
      Array of object:
      uniqueId string
      activityId string
      activityName string
      activityDescription string
      departmentHostKey string
      departmentName string
      startTime string
      endTime string
      activityDurationMins string
      allDayActivity string
      locations [{
        Array of object:
        locationName string
        locationDesc string
        room string
        buildingCode string 1 to 45 chars
          Code for the Building
        catalogueUrl string
        details string
      }]
      moduleId string
      moduleDescription string
      moduleUrl string
      bOptional boolean
      streamId string
      activityProperties {
```

allDay	string	
altc	string	1 to 64 chars
		Alt code of the Module to which the Activity belongs
optional	string	
departmentHostKey	string	
exceptionGroup	string	
friendlyName	string	
noPublishStaff	string	
noPublishStudent	string	
notes	string	
planSize	number	The plan size
ready	string	
repeatGroup	string	Name of the repeat group to which this event's Activity belongs
repeatOf	string	The unique code to identify the activity to which this event's activity is a repeat of
repeat	string	[[Deprecated – please use "repeatOf" instead]] The unique code to identify the activity to which this event's activity is a repeat of
size	number	The plan or actual size
stuCount	number	>=0
		The actual number of students in the activity
typeCode	string	
user1	string	
user2	string	
user3	string	
user4	string	
user5	string	
user6	string	
user7	string	
virtual	string	
meetingRequired	boolean	
meetingUrl	string	

```

}
module {
  altc string 0 to 64 chars
                                Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
offer {
  altc string 0 to 255 chars
                                Alt code for the Offer
  n string 1 to 255 chars
                                Name for the Offer

  user1 string
  user2 string
}
tags [{
Array of object:
  n string
}]
academics [{
Array of object:
  fullName string Name of the Staff member
  email string Email address for the Staff member
  phoneNumber string Phone number for the Staff member
  role string The role performed by the Staff member for the Activity or Booking
}]

```

```

activityGroup {
  name string
  type string
}
students [{
  Array of object:
    code string 0 to 255 chars
                                Unique code to identify the Student
    name string 0 to 255 chars
                                Name of Student
    email string 0 to 600 chars
                                Email address for Student
  }]
}]
examItems [{
  Array of object:
    academics [{
      Array of object:
        fullName string Name of the Staff member
        email string Email address for the Staff member
        phoneNumber string Phone number for the Staff member
        role string The role performed by the Staff member for the Activity or Booking
      }]
    allDayActivity string
    assessmentPeriodCode string
    departmentHostKey string
    departmentName string
    endTime string
                                For Classic and Takehome Exams this is the end time of the
                                Exam Sessions. For Serial Exams this is the end time of a
                                Student's Track Slot.

    examCode string
    examDescription string
    examDurationMins number
    examId string
    examName string
    examProperties {
      allDay string
      altc string 1 to 64 chars
                                A unique identifier for the Module to which the Exam belongs.
      departmentHostKey string
      exceptionGroup string
      friendlyName string
      nopublishstaff string
      nopublishstudent string
      notes string
      planSize number The plan size
      ready string
      size number The plan or actual size
      typeCode string Unique code to identify the Activity Type
      user1 string
      user2 string
      user3 string
      virtual string
      sharing string
      splittable string
      minRoomSize number Minimum number of attendees in a room
      exclusiveStaff string
      trackSlotMinutes number A value of 0 indicates a parallel exam (all students sit the exam at the same time).
    }
  }
}

```

Non 0 values indicate the duration, in minutes, for a serial exam session (students allocated to tracks and sit the exam on track after the other)

```
}
locations [{
  Array of object:
    locationName string
    locationDesc string
    room string
    buildingCode string 1 to 45 chars
                                Code for the Building
    catalogueUrl string
    details string
  }]
module {
  altc string 0 to 64 chars
                                Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
moduleDescription string
moduleId string
moduleUrl string
offer {
  altc string 0 to 255 chars
                                Alt code for the Offer
  n string 1 to 255 chars
                                Name for the Offer
  user1 string
  user2 string
}
startTime string
                                For Classic and Takehome Exams this is the start time of the
                                Exam Sessions. For Serial Exams this is the start time of a
                                Student's Track Slot.

streamId string
uniqueId string
}]
bookingItems [{
  Array of object:
    uniqueId string
    bookingId string
    bookingDescription string
    departmentHostKey string
    departmentName string
    startTime string
    endTime string
    bookingDurationMins string
    allDayBooking string
    locations [{
      Array of object:
        locationName string
        locationDesc string
        room string
        buildingCode string 1 to 45 chars
                                Code for the Building
        catalogueUrl string
        details string
      }]
    }]
```

```

moduleId                string
moduleDescription        string
moduleUrl                string
streamId                 string
bookingProperties {
    allDay                string
    departmentHostKey     string
    nopublishstudent      boolean
    notes                  string
    typeCode               string
    user1                  string
    user2                  string
    user3                  string
    user4                  string
    userFields [{
        Array of object:
        index number >=1
                                User field number
        value string Value stored in the user field
        type string A description of the type of the value
        min number optional, minimum value (applied to user fields of type 'int')
        max number optional, maximum value (applied to user fields of type 'int')
    }]
}
module {
    altc string 0 to 64 chars
                                Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
offer {
    altc string 0 to 255 chars
                                Alt code for the Offer
    n string 1 to 255 chars
                                Name for the Offer
    user1 string
    user2 string
}
tags [{
    Array of object:
    n string
}]
academics [{
    Array of object:
    fullName string Name of the Staff member
    email string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role string The role performed by the Staff member for the Activity or Booking
}]
staffAttendees [string] 1 to 45 chars
                                Unique code to identify the Staff
staffAttendeeObjects [{
    Array of object:
    c string 1 to 45 chars
                                Unique code to identify the staff member
    n string 1 to 100 chars
}

```



```

        Name of the staff member
    }}
    studentAttendees [{
    Array of object:
        c string 1 to 255 chars
        Unique code to identify the student
        n string 1 to 255 chars
        Student name
    }]
    }]
    sessionItems [{
    Array of object:
        sessionId        string
        sessionName      string
        startDate        string
        startTime        string
        endDate          string
        endTime          string
        sessionLocation {
            code         string
            building     string
            campus       string
        }
        staffRole {
            code string
            name string
        }
        meetingStartTime string
        meetingEndTime   string
        meetingNotes     string
    }]
    }]
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message*  string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{

```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

37.10 GET /timetable/room/{c}

Get timetable for a room

Returns timetabled activities for today or for the requested date range, provided that the range is within the current academic year.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Unique code to identify the room

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
start	string 10 to 10 chars	Start date in YYYY-MM-DD format

NAME	TYPE	DESCRIPTION
end	string 10 to 10 chars	End date in YYYY-MM-DD format

RESPONSE

STATUS CODE - 200: An array of activities. When no activities are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```
{
  room {
    name string
    id string
  }
  status string
  timePeriod {
    startDate string Date(YYYY-MM-DD)
    endDate string Date(YYYY-MM-DD)
  }
  schedule [{
    Array of object:
    date string
    dateDescription string
    week string
    items [{
      Array of object:
      uniqueId string
      activityId string
      activityName string
      activityDescription string
      departmentHostKey string
      departmentName string
      startTime string
      endTime string
      activityDurationMins string
      allDayActivity string
      locations [{
        Array of object:
        locationName string
        locationDesc string
        room string
        buildingCode string 1 to 45 chars
                                Code for the Building
        catalogueUrl string
        details string
      }]
      moduleId string
      moduleDescription string
      moduleUrl string
      bOptional boolean
      streamId string
      activityProperties {
        allDay string
        altc string 1 to 64 chars
                                Alt code of the Module to which the Activity belongs
        optional string
```

```

    departmentHostKey string
    exceptionGroup    string
    friendlyName      string
    nopublishstaff    string
    nopublishstudent  string
    notes             string
    planSize          number    The plan size
    ready             string
    repeatgroup       string    Name of the repeat group to which this event's Activity belongs
    repeatOf          string    The unique code to identify the activity to which this event's activity is a repeat of
    repeat            string    [[ Deprecated – please use "repeatOf" instead ]] The unique code to identify the
                                activity to which this event's activity is a repeat of
    size              number    The plan or actual size
    stuCount          number    >=0
                                The actual number of students in the activity

    typeCode          string
    user1             string
    user2             string
    user3             string
    user4             string
    user5             string
    user6             string
    user7             string
    virtual           string
    meetingRequired   boolean
    meetingUrl        string
}
module {
    altc string 0 to 64 chars
                                Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
offer {
    altc string 0 to 255 chars
                                Alt code for the Offer
    n string 1 to 255 chars
                                Name for the Offer
    user1 string
    user2 string
}
tags [{
Array of object:
    n string
}]
academics [{
Array of object:
    fullName string    Name of the Staff member
    email     string    Email address for the Staff member
    phoneNumber string  Phone number for the Staff member
    role      string    The role performed by the Staff member for the Activity or Booking
}]
activityGroup {
    name string
    type string
}

```

```

students [{
  Array of object:
    code   string  0 to 255 chars
                Unique code to identify the Student
    name   string  0 to 255 chars
                Name of Student
    email  string  0 to 600 chars
                Email address for Student
  }]
}]
examItems [{
  Array of object:
    academics [{
      Array of object:
        fullName   string  Name of the Staff member
        email       string  Email address for the Staff member
        phoneNumber string  Phone number for the Staff member
        role        string  The role performed by the Staff member for the Activity or Booking
      }]
    allDayActivity      string
    assessmentPeriodCode string
    departmentHostKey   string
    departmentName      string
    endTime             string
                                For Classic and Takehome Exams this is the end time of the
                                Exam Sessions. For Serial Exams this is the end time of a
                                Student's Track Slot.

    examCode            string
    examDescription     string
    examDurationMins    number
    examId              string
    examName            string
    examProperties {
      allDay      string
      altc        string  1 to 64 chars
                                A unique identifier for the Module to which the Exam belongs.

      departmentHostKey string
      exceptionGroup   string
      friendlyName     string
      nopublishstaff   string
      nopublishstudent string
      notes            string
      planSize         number  The plan size
      ready            string
      size             number  The plan or actual size
      typeCode         string  Unique code to identify the Activity Type
      user1            string
      user2            string
      user3            string
      virtual          string
      sharing          string
      splittable       string
      minRoomSize      number  Minimum number of attendees in a room
      exclusiveStaff   string
      trackSlotMinutes number  A value of 0 indicates a parallel exam (all students sit the exam at the same time).
                                Non 0 values indicate the duration, in minutes, for a serial exam session (students
                                allocated to tracks and sit the exam on track after the other)
    }
    locations [{
      Array of object:

```

```

    locationName string
    locationDesc string
    room         string
    buildingCode string 1 to 45 chars
                        Code for the Building
    catalogueUrl string
    details      string
  }}
  module {
    altc string 0 to 64 chars
          Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
  }
  moduleDescription string
  moduleId           string
  moduleUrl         string
  offer {
    altc string 0 to 255 chars
          Alt code for the Offer
    n     string 1 to 255 chars
          Name for the Offer
    user1 string
    user2 string
  }
  startTime string
  streamId   string
  uniqueId   string
}}
bookingItems [{
  Array of object:
    uniqueId      string
    bookingId     string
    bookingDescription string
    departmentHostKey string
    departmentName string
    startTime      string
    endTime        string
    bookingDurationMins string
    allDayBooking  string
    locations [{
      Array of object:
        locationName string
        locationDesc string
        room         string
        buildingCode string 1 to 45 chars
                        Code for the Building
        catalogueUrl string
        details      string
      }]
    moduleId           string
    moduleDescription  string
    moduleUrl         string
    streamId          string

```

For Classic and Takehome Exams this is the start time of the Exam Sessions. For Serial Exams this is the start time of a Student's Track Slot.

```

bookingProperties {
    allDay                string
    departmentHostKey     string
    nopublishstudent      boolean
    notes                 string
    typeCode              string
    user1                 string
    user2                 string
    user3                 string
    user4                 string
    userFields [{
        Array of object:
        index number >=1
                                User field number
        value string Value stored in the user field
        type  string A description of the type of the value
        min   number optional, minimum value (applied to user fields of type 'int')
        max   number optional, maximum value (applied to user fields of type 'int')
    }]
}
module {
    altc string 0 to 64 chars
            Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
offer {
    altc string 0 to 255 chars
            Alt code for the Offer
    n     string 1 to 255 chars
            Name for the Offer
    user1 string
    user2 string
}
tags [{
    Array of object:
    n string
}]
academics [{
    Array of object:
    fullName string Name of the Staff member
    email     string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role      string The role performed by the Staff member for the Activity or Booking
}]
staffAttendees [string] 1 to 45 chars
                                Unique code to identify the Staff

staffAttendeeObjects [{
    Array of object:
    c string 1 to 45 chars
            Unique code to identify the staff member
    n string 1 to 100 chars
            Name of the staff memver
}]
studentAttendees [{
    Array of object:

```

```

        c string 1 to 255 chars
                Unique code to identify the student
        n string 1 to 255 chars
                Student name
    }}
}}
sessionItems [{
Array of object:
    sessionId        string
    sessionName      string
    startDate        string
    startTime        string
    endDate          string
    endTime          string
    sessionLocation {
        code         string
        building      string
        campus        string
    }
    staffRole {
        code string
        name string
    }
    meetingStartTime string
    meetingEndTime   string
    meetingNotes      string
    }]
}]
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                presence of another parameter
                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                * `105` - Internal server error, a catch-all for unexpected errors
                * `106` - No object found, i.e. the request contains a code that references no object in the database
                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                database
                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                the query parameters
                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                Department(s)
                * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                Error codes:
                * `100` - Bad API key, e.g. too short or malformed
                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                * `102` - Missing mandatory parameter
```


- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

37.11 GET /timetable/staff/{c}

Get timetable for one staff member

Returns timetabled activities for today or for the requested date range, provided that the range is within the current academic year.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 45 chars	Code to identify a Staff member uniquely

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
start	string 10 to 10 chars	Start date in YYYY-MM-DD format
end	string 10 to 10 chars	End date in YYYY-MM-DD format

RESPONSE

STATUS CODE - 200: An array of activities. When no activities are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```
{
  status                                string
  staff {
    name  string
    id    string
    user1 string 0 to 60 chars
           User-definable field 1
    user2 string 0 to 60 chars
           User-definable field 2
    user3 string 0 to 60 chars
           User-definable field 3
    user4 string 0 to 60 chars
           User-definable field 4
    user5 string 0 to 60 chars
           User-definable field 5
    user6 string 0 to 60 chars
           User-definable field 6
  }
  timePeriod {
    startDate string Date (YYYY-MM-DD)
    endDate   string Date (YYYY-MM-DD)
  }
  schedule [{
    Array of object:
      date                                string
      dateDescription                     string
      week                                string
      items [{
        Array of object:
          uniqueId                        string
          activityId                      string
          activityName                    string
          activityDescription              string
          departmentHostKey               string
          departmentName                  string
          startTime                       string
          endTime                         string
          activityDurationMins            string
          allDayActivity                  string
          locations [{
            Array of object:
              locationName string
              locationDesc  string
              room           string
              buildingCode  string 1 to 45 chars
                             Code for the Building
              catalogueUrl  string
              details        string
            }]
          moduleId          string
          moduleDescription string
          moduleUrl         string
          bOptional         boolean
          streamId          string
          activityProperties {
```

allDay	string	
altc	string	1 to 64 chars
		Alt code of the Module to which the Activity belongs
optional	string	
departmentHostKey	string	
exceptionGroup	string	
friendlyName	string	
noPublishStaff	string	
noPublishStudent	string	
notes	string	
planSize	number	The plan size
ready	string	
repeatGroup	string	Name of the repeat group to which this event's Activity belongs
repeatOf	string	The unique code to identify the activity to which this event's activity is a repeat of
repeat	string	[[Deprecated – please use "repeatOf" instead]] The unique code to identify the activity to which this event's activity is a repeat of
size	number	The plan or actual size
stuCount	number	>=0
		The actual number of students in the activity
typeCode	string	
user1	string	
user2	string	
user3	string	
user4	string	
user5	string	
user6	string	
user7	string	
virtual	string	
meetingRequired	boolean	
meetingUrl	string	

```

}
module {
  altc string 0 to 64 chars
      Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
offer {
  altc string 0 to 255 chars
      Alt code for the Offer
  n string 1 to 255 chars
      Name for the Offer
  user1 string
  user2 string
}
tags [{
  Array of object:
    n string
}]
academics [{
  Array of object:
    fullName string Name of the Staff member
    email string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role string The role performed by the Staff member for the Activity or Booking
}]

```

```

activityGroup {
  name string
  type string
}
students [{
  Array of object:
    code string 0 to 255 chars
                                Unique code to identify the Student
    name string 0 to 255 chars
                                Name of Student
    email string 0 to 600 chars
                                Email address for Student
  }]
}]
examItems [{
  Array of object:
    academics [{
      Array of object:
        fullName string Name of the Staff member
        email string Email address for the Staff member
        phoneNumber string Phone number for the Staff member
        role string The role performed by the Staff member for the Activity or Booking
      }]
    allDayActivity string
    assessmentPeriodCode string
    departmentHostKey string
    departmentName string
    endTime string
                                For Classic and Takehome Exams this is the end time of the
                                Exam Sessions. For Serial Exams this is the end time of a
                                Student's Track Slot.

    examCode string
    examDescription string
    examDurationMins number
    examId string
    examName string
    examProperties {
      allDay string
      altc string 1 to 64 chars
                                A unique identifier for the Module to which the Exam belongs.
      departmentHostKey string
      exceptionGroup string
      friendlyName string
      nopublishstaff string
      nopublishstudent string
      notes string
      planSize number The plan size
      ready string
      size number The plan or actual size
      typeCode string Unique code to identify the Activity Type
      user1 string
      user2 string
      user3 string
      virtual string
      sharing string
      splittable string
      minRoomSize number Minimum number of attendees in a room
      exclusiveStaff string
      trackSlotMinutes number A value of 0 indicates a parallel exam (all students sit the exam at the same time).
    }
  }
}

```

Non 0 values indicate the duration, in minutes, for a serial exam session (students allocated to tracks and sit the exam on track after the other)

```
}
locations [{
  Array of object:
    locationName string
    locationDesc string
    room         string
    buildingCode string 1 to 45 chars
                                Code for the Building
    catalogueUrl string
    details      string
  }]
module {
  altc string 0 to 64 chars
          Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
moduleDescription string
moduleId           string
moduleUrl          string
offer {
  altc string 0 to 255 chars
          Alt code for the Offer
  n     string 1 to 255 chars
          Name for the Offer
  user1 string
  user2 string
}
startTime string
          For Classic and Takehome Exams this is the start time of the
          Exam Sessions. For Serial Exams this is the start time of a
          Student's Track Slot.

streamId string
uniqueId string
}]
bookingItems [{
  Array of object:
    uniqueId string
    bookingId string
    bookingDescription string
    departmentHostKey string
    departmentName string
    startTime string
    endTime string
    bookingDurationMins string
    allDayBooking string
    locations [{
      Array of object:
        locationName string
        locationDesc string
        room         string
        buildingCode string 1 to 45 chars
                                Code for the Building
        catalogueUrl string
        details      string
      }]
    }]
```

```

moduleId                string
moduleDescription       string
moduleUrl               string
streamId                string
bookingProperties {
    allDay                string
    departmentHostKey     string
    nopublishstudent      boolean
    notes                 string
    typeCode              string
    user1                 string
    user2                 string
    user3                 string
    user4                 string
    userFields [{
        Array of object:
        index number >=1
                                User field number
        value string Value stored in the user field
        type string A description of the type of the value
        min number optional, minimum value (applied to user fields of type 'int')
        max number optional, maximum value (applied to user fields of type 'int')
    }]
}
module {
    altc string 0 to 64 chars
                                Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
offer {
    altc string 0 to 255 chars
                                Alt code for the Offer
    n string 1 to 255 chars
                                Name for the Offer
    user1 string
    user2 string
}
tags [{
    Array of object:
    n string
}]
academics [{
    Array of object:
    fullName string Name of the Staff member
    email string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role string The role performed by the Staff member for the Activity or Booking
}]
staffAttendees [string] 1 to 45 chars
                                Unique code to identify the Staff
staffAttendeeObjects [{
    Array of object:
    c string 1 to 45 chars
                                Unique code to identify the staff member
    n string 1 to 100 chars
}

```

```

        Name of the staff member
    }}
    studentAttendees [{
    Array of object:
        c string 1 to 255 chars
        Unique code to identify the student
        n string 1 to 255 chars
        Student name
    }]
    }]
    sessionItems [{
    Array of object:
        sessionId      string
        sessionName     string
        startDate       string
        startTime        string
        endDate         string
        endTime         string
        sessionLocation {
            code        string
            building     string
            campus       string
        }
        staffRole {
            code string
            name string
        }
        meetingStartTime string
        meetingEndTime   string
        meetingNotes      string
    }]
    }]
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{

```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

37.12 GET /timetable/student/{c}

Get timetable for one student

Returns timetabled activities for today or for the requested date range, provided that the range is within the current academic year.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 255 chars	Unique code to identify the student

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
start	string 10 to 10 chars	Start date in YYYY-MM-DD format

NAME	TYPE	DESCRIPTION
end	string 10 to 10 chars	End date in YYYY-MM-DD format
actUser1	string 0 to 255 chars	Filter the activities in the response by looking up the passed value in the user1 property of the activities
actUser2	string 0 to 255 chars	Filter the activities in the response by looking up the passed value in the user2 property of the activities
actUser3	string 0 to 255 chars	Filter the activities in the response by looking up the passed value in the user3 property of the activities

RESPONSE

STATUS CODE - 200: An array of activities. When no activities are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```

{
  status string
  student {
    name string
    id string
    email string 0 to 600 chars
      primary email address for Student
    user1 string 0 to 60 chars
      User-definable field 1
    user2 string 0 to 60 chars
      User-definable field 2
    user3 string 0 to 60 chars
      User-definable field 3
    user4 string 0 to 60 chars
      User-definable field 4
    user5 string 0 to 60 chars
      User-definable field 5
    user6 string 0 to 60 chars
      User-definable field 6
  }
  timePeriod {
    startDate string Date(YYYY-MM-DD)
    endDate string Date(YYYY-MM-DD)
  }
  schedule [{
    Array of object:
    date string
    dateDescription string
    week string
    items [{
    Array of object:
      uniqueId string
      activityId string
      activityName string
      activityDescription string
      departmentHostKey string
      departmentName string
    }
  ]
}

```

```

startTime string
endTime string
activityDurationMins string
allDayActivity string
locations [{
  Array of object:
    locationName string
    locationDesc string
    room string
    buildingCode string 1 to 45 chars
                        Code for the Building
    catalogueUrl string
    details string
}]
moduleId string
moduleDescription string
moduleUrl string
bOptional boolean
streamId string
activityProperties {
  allDay string
  altc string 1 to 64 chars
                        Alt code of the Module to which the Activity belongs
  optional string
  departmentHostKey string
  exceptionGroup string
  friendlyName string
  nopublishstaff string
  nopublishstudent string
  notes string
  planSize number The plan size
  ready string
  repeatgroup string Name of the repeat group to which this event's Activity belongs
  repeatOf string The unique code to identify the activity to which this event's activity is a repeat of
  repeat string [[ Deprecated – please use "repeatOf" instead ]] The unique code to identify the
                        activity to which this event's activity is a repeat of
  size number The plan or actual size
  stuCount number >=0
                        The actual number of students in the activity
  typeCode string
  user1 string
  user2 string
  user3 string
  user4 string
  user5 string
  user6 string
  user7 string
  virtual string
  meetingRequired boolean
  meetingUrl string
}
module {
  altc string 0 to 64 chars
                        Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars

```

```

    }
    offer {
        altc string 0 to 255 chars
            Alt code for the Offer
        n string 1 to 255 chars
            Name for the Offer
        user1 string
        user2 string
    }
    tags [{
        Array of object:
        n string
    }]
    academics [{
        Array of object:
        fullName string Name of the Staff member
        email string Email address for the Staff member
        phoneNumber string Phone number for the Staff member
        role string The role performed by the Staff member for the Activity or Booking
    }]
    activityGroup {
        name string
        type string
    }
    studentGroups [{
        Array of object:
        name string 0 to 255 chars
            Name of the Student Group
        code string 0 to 45 chars
            Unique code to identify the Student Group
        superGroup string 0 to 100 chars
            Name of the Super Group to which the Student Group belongs
    }]
}]
examItems [{
    Array of object:
    academics [{
        Array of object:
        fullName string Name of the Staff member
        email string Email address for the Staff member
        phoneNumber string Phone number for the Staff member
        role string The role performed by the Staff member for the Activity or Booking
    }]
    allDayActivity string
    assessmentPeriodCode string
    departmentHostKey string
    departmentName string
    endTime string
        For Classic and Takehome Exams this is the end time of the
        Exam Sessions. For Serial Exams this is the end time of a
        Student's Track Slot.
    examCode string
    examDescription string
    examDurationMins number
    examId string
    examName string
    examProperties {
        allDay string
        altc string 1 to 64 chars
    }
}

```

```

    departmentHostKey string
    exceptionGroup    string
    friendlyName      string
    nopublishstaff    string
    nopublishstudent  string
    notes             string
    planSize          number The plan size
    ready             string
    size              number The plan or actual size
    typeCode          string Unique code to identify the Activity Type
    user1             string
    user2             string
    user3             string
    virtual           string
    sharing            string
    splittable        string
    minRoomSize       number Minimum number of attendees in a room
    exclusiveStaff    string
    trackSlotMinutes  number A value of 0 indicates a parallel exam (all students sit the exam at the same time).
                        Non 0 values indicate the duration, in minutes, for a serial exam session (students
                        allocated to tracks and sit the exam on track after the other)
}
locations [{
    Array of object:
        locationName string
        locationDesc  string
        room          string
        buildingCode  string 1 to 45 chars
                        Code for the Building
        catalogueUrl  string
        details       string
}]
module {
    altc string 0 to 64 chars
        Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
moduleDescription string
moduleId          string
moduleUrl         string
offer {
    altc string 0 to 255 chars
        Alt code for the Offer
    n    string 1 to 255 chars
        Name for the Offer
    user1 string
    user2 string
}
startTime string
            For Classic and Takehome Exams this is the start time of the
            Exam Sessions. For Serial Exams this is the start time of a
            Student's Track Slot.

    streamId string
    uniqueId string
}]
bookingItems [{

```

Array of object:

```
uniqueId      string
bookingId     string
bookingDescription string
departmentHostKey string
departmentName string
startTime     string
endTime       string
bookingDurationMins string
allDayBooking string
locations [{
```

Array of object:

```
    locationName string
    locationDesc string
    room          string
    buildingCode  string 1 to 45 chars
                        Code for the Building
    catalogueUrl  string
    details       string
```

```
  }]
  moduleId      string
  moduleDescription string
  moduleUrl      string
  streamId      string
  bookingProperties {
    allDay      string
    departmentHostKey string
    nopublishstudent boolean
    notes       string
    typeCode    string
    user1       string
    user2       string
    user3       string
    user4       string
    userFields [{
```

Array of object:

```
      index number >=1
                        User field number
      value string Value stored in the user field
      type  string A description of the type of the value
      min   number optional, minimum value (applied to user fields of type 'int')
      max   number optional, maximum value (applied to user fields of type 'int')
    }]
  }
```

```
module {
  altc string 0 to 64 chars
        Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
```

```
offer {
  altc string 0 to 255 chars
        Alt code for the Offer
  n     string 1 to 255 chars
        Name for the Offer
  user1 string
```

```

    user2 string
  }
  tags [{
    Array of object:
    n string
  }]
  academics [{
    Array of object:
    fullName string Name of the Staff member
    email string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role string The role performed by the Staff member for the Activity or Booking
  }]
  staffAttendees [string] 1 to 45 chars
                                Unique code to identify the Staff

  staffAttendeeObjects [{
    Array of object:
    c string 1 to 45 chars
                                Unique code to identify the staff member
    n string 1 to 100 chars
                                Name of the staff memver
  }]
  studentAttendees [{
    Array of object:
    c string 1 to 255 chars
                                Unique code to identify the student
    n string 1 to 255 chars
                                Student name
  }]
}]
}]
}

```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114

```

Error codes:

- * `100` - Bad API key, e.g. too short or malformed
- * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

37.13 GET /timetable/studentgroup/{gc}

Get timetable for one student group

Returns timetabled activities for today or for the requested date range, provided that the range is within the current academic year.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*gc	string 1 to 45 chars	Unique code to identify the group

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
useAlt	number between 0 and 1	To be used when the alternative code is used to identify the underlying object
start	string 10 to 10 chars	Start date in YYYY-MM-DD format

NAME	TYPE	DESCRIPTION
end	string 10 to 10 chars	End date in YYYY-MM-DD format

RESPONSE

STATUS CODE - 200: An array of activities. When no activities are found an empty schedule array is returned.

RESPONSE MODEL - application/json

```
{
  status                                string
  room {
    name string
    id   string
  }
  schedule [{
    Array of object:
    date                                string
    dateDescription                     string
    week                                string
    items [{
      Array of object:
      uniqueId                          string
      activityId                        string
      activityName                      string
      activityDescription                string
      departmentHostKey                 string
      departmentName                    string
      startTime                         string
      endTime                           string
      activityDurationMins              string
      allDayActivity                    string
      locations [{
        Array of object:
        locationName string
        locationDesc string
        room          string
        buildingCode string 1 to 45 chars
                                Code for the Building
        catalogueUrl string
        details       string
      }]
    }
    moduleId                          string
    moduleDescription                 string
    moduleUrl                         string
    bOptional                         boolean
    streamId                          string
    activityProperties {
      allDay string
      altc   string 1 to 64 chars
                                Alt code of the Module to which the Activity belongs
      optional string
      departmentHostKey string
      exceptionGroup string
      friendlyName string
      nopublishstaff string
    }
  }
}
```


nopublishstudent	string	
notes	string	
planSize	number	The plan size
ready	string	
repeatgroup	string	Name of the repeat group to which this event's Activity belongs
repeatOf	string	The unique code to identify the activity to which this event's activity is a repeat of
repeat	string	[[Deprecated – please use "repeatOf" instead]] The unique code to identify the activity to which this event's activity is a repeat of
size	number	The plan or actual size
stuCount	number	>=0 The actual number of students in the activity
typeCode	string	
user1	string	
user2	string	
user3	string	
user4	string	
user5	string	
user6	string	
user7	string	
virtual	string	
meetingRequired	boolean	
meetingUrl	string	

```

}
module {
  altc  string 0 to 64 chars
           Alt Code
  user1 string 0 to 256 chars
  user2 string 0 to 256 chars
  user3 string 0 to 256 chars
  user4 string 0 to 256 chars
}
offer {
  altc  string 0 to 255 chars
           Alt code for the Offer
  n      string 1 to 255 chars
           Name for the Offer
  user1 string
  user2 string
}
tags [{
  Array of object:
    n string
}]
academics [{
  Array of object:
    fullName string Name of the Staff member
    email     string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role      string The role performed by the Staff member for the Activity or Booking
}]
activityGroup {
  name string
  type string
}
students [{
  Array of object:
    code string 0 to 255 chars
           Unique code to identify the Student

```

```

    name    string 0 to 255 chars
              Name of Student
    email   string 0 to 600 chars
              Email address for Student
  }}
}}
examItems [{
  Array of object:
    academics [{
      Array of object:
        fullName    string Name of the Staff member
        email        string Email address for the Staff member
        phoneNumber  string Phone number for the Staff member
        role         string The role performed by the Staff member for the Activity or Booking
      }]
    allDayActivity      string
    assessmentPeriodCode string
    departmentHostKey   string
    departmentName      string
    endTime             string
                          For Classic and Takehome Exams this is the end time of the
                          Exam Sessions. For Serial Exams this is the end time of a
                          Student's Track Slot.

    examCode            string
    examDescription     string
    examDurationMins    number
    examId              string
    examName            string
    examProperties {
      allDay            string
      altc              string 1 to 64 chars
                          A unique identifier for the Module to which the Exam belongs.

      departmentHostKey string
      exceptionGroup    string
      friendlyName      string
      nopublishstaff    string
      nopublishstudent  string
      notes             string
      planSize          number The plan size
      ready             string
      size              number The plan or actual size
      typeCode          string Unique code to identify the Activity Type
      user1             string
      user2             string
      user3             string
      virtual           string
      sharing           string
      splittable        string
      minRoomSize       number Minimum number of attendees in a room
      exclusiveStaff    string
      trackSlotMinutes  number A value of 0 indicates a parallel exam (all students sit the exam at the same time).
                          Non 0 values indicate the duration, in minutes, for a serial exam session (students
                          allocated to tracks and sit the exam on track after the other)
    }
  }
  locations [{
    Array of object:
      locationName string
      locationDesc  string
      room          string
      buildingCode  string 1 to 45 chars
  }
}

```

```

                                Code for the Building
    catalogueUrl string
    details      string
  ]]
  module {
    altc string 0 to 64 chars
                                Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
  }
  moduleDescription string
  moduleId           string
  moduleUrl          string
  offer {
    altc string 0 to 255 chars
                                Alt code for the Offer
    n     string 1 to 255 chars
                                Name for the Offer
    user1 string
    user2 string
  }
  startTime string
                                For Classic and Takehome Exams this is the start time of the
                                Exam Sessions. For Serial Exams this is the start time of a
                                Student's Track Slot.

  streamId string
  uniqueId string
  ]]
  bookingItems [{
    Array of object:
    uniqueId string
    bookingId string
    bookingDescription string
    departmentHostKey string
    departmentName string
    startTime string
    endTime string
    bookingDurationMins string
    allDayBooking string
    locations [{
      Array of object:
      locationName string
      locationDesc string
      room string
      buildingCode string 1 to 45 chars
                                Code for the Building
      catalogueUrl string
      details string
    }]
    moduleId string
    moduleDescription string
    moduleUrl string
    streamId string
    bookingProperties {
      allDay string
      departmentHostKey string
      nopublishstudent boolean

```

```

notes string
typeCode string
user1 string
user2 string
user3 string
user4 string
userFields [{
Array of object:
    index number >=1
                                User field number
    value string Value stored in the user field
    type string A description of the type of the value
    min number optional, minimum value (applied to user fields of type 'int')
    max number optional, maximum value (applied to user fields of type 'int')
}]
}
module {
    altc string 0 to 64 chars
                                Alt Code
    user1 string 0 to 256 chars
    user2 string 0 to 256 chars
    user3 string 0 to 256 chars
    user4 string 0 to 256 chars
}
offer {
    altc string 0 to 255 chars
                                Alt code for the Offer
    n string 1 to 255 chars
                                Name for the Offer
    user1 string
    user2 string
}
tags [{
Array of object:
    n string
}]
academics [{
Array of object:
    fullName string Name of the Staff member
    email string Email address for the Staff member
    phoneNumber string Phone number for the Staff member
    role string The role performed by the Staff member for the Activity or Booking
}]
staffAttendees [string] 1 to 45 chars
                                Unique code to identify the Staff

staffAttendeeObjects [{
Array of object:
    c string 1 to 45 chars
                                Unique code to identify the staff member
    n string 1 to 100 chars
                                Name of the staff memver
}]
studentAttendees [{
Array of object:
    c string 1 to 255 chars
                                Unique code to identify the student
    n string 1 to 255 chars
                                Student name
}

```

```

    }}
  }}
  sessionItems [{
    Array of object:
    sessionId      string
    sessionName    string
    startDate      string
    startTime      string
    endDate        string
    endTime        string
    sessionLocation {
      code    string
      building string
      campus  string
    }
    staffRole {
      code string
      name string
    }
    meetingStartTime string
    meetingEndTime   string
    meetingNotes      string
  }]
}]
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               *`100` - Bad API key, e.g. too short or malformed
               *`101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               *`102` - Missing mandatory parameter
               *`103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               *`104` - No database found, may occur when a given database has not been loaded onto a test server
               *`105` - Internal server error, a catch-all for unexpected errors
               *`106` - No object found, i.e. the request contains a code that references no object in the database
               *`107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
               database
               *`108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
               the query parameters
               *`109` - Parameter has wrong format, e.g. a string was provided where a number was needed
               *`110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
               Department(s)
               *`114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
               Error codes:
               *`100` - Bad API key, e.g. too short or malformed
               *`101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
               *`102` - Missing mandatory parameter
               *`103` - Missing optional parameter, used when the presence of one parameter is required because of the
               presence of another parameter
               *`104` - No database found, may occur when a given database has not been loaded onto a test server
               *`105` - Internal server error, a catch-all for unexpected errors
               *`106` - No object found, i.e. the request contains a code that references no object in the database
```

- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
  message* string
}
```

38. WEBHOOK

38.1 GET /webhooks

Get all webhooks

Returns the list of all webhooks associated with the supplied API key.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of JSON objects describing each webhook.

RESPONSE MODEL - application/json

```
[{
  Array of object:
    c      string  1 to 60 chars
              Any code that the customer wants to assign to the webhook to identify it.
    t      string  1 to 255 chars
              The type of object that, when changed, will cause the webhook to be invoked.
    h      string  5 to 500 chars
              An HTTP header to be sent by Semestry to the customer when the webhook is invoked.
    u      string  5 to 500 chars
              The URL to be called by Semestry when the webhook is invoked.
    v      string  1 to 20 chars
              The verb (GET, POST, ...) to be used by Semestry when calling the webhook.
    e      string  5 to 500 chars
              The email to which Semestry sends notifications if/when the webhook call fails.
    success integer  The number of times that Semestry has called the webhook successfully.
    failure integer  The number of times that Semestry has tries and failed to call the webhook successfully.
    database string  name of the database
}]
```

38.2 GET /webhook/{c}

Get one webhook

Returns the identified webhook associated with the supplied API key.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 60 chars	The code chosen by the customer to identify the webhook.

RESPONSE

STATUS CODE - 200: A JSON object describing the webhook.

RESPONSE MODEL - application/json

```
{
  c      string  1 to 60 chars
```

t	string	1 to 255 chars	Any code that the customer wants to assign to the webhook to identify it.
h	string	5 to 500 chars	The type of object that, when changed, will cause the webhook to be invoked.
u	string	5 to 500 chars	An HTTP header to be sent by Semestry to the customer when the webhook is invoked.
v	string	1 to 20 chars	The URL to be called by Semestry when the webhook is invoked.
e	string	5 to 500 chars	The verb (GET, POST, ...) to be used by Semestry when calling the webhook.
success	integer		The email to which Semestry sends notifications if/when the webhook call fails.
failure	integer		The number of times that Semestry has called the webhook successfully.
database	string		The number of times that Semestry has tries and failed to call the webhook successfully.
			name of the database

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message*   string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message*   string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json


```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                * `102` - Missing mandatory parameter
                                * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                presence of another parameter
                                * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                * `105` - Internal server error, a catch-all for unexpected errors
                                * `106` - No object found, i.e. the request contains a code that references no object in the database
                                * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                database
                                * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                the query parameters
                                * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                Department(s)
                                * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

38.3 PUT /webhook/{c}

Update a webhook

Used for updating the details of an existing webhook.

The table below describes a list of available webhook types:

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 60 chars	The code chosen by the customer to identify the webhook.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
h	string 5 to 500 chars	An HTTP header to be sent by Semestry to the customer when the webhook is invoked.
u	string 5 to 500 chars	The URL to be called by Semestry when the webhook is invoked.
v	string 1 to 20 chars	The verb (GET, POST, ...) to be used by Semestry when calling the webhook
e	string 5 to 500 chars	The email to which Semestry sends notifications if/when the webhook call fails.

RESPONSE

STATUS CODE - 200: Success - the webhook was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                Error codes:
                                * `100` - Bad API key, e.g. too short or malformed
                                * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys

```

- * `102` - Missing mandatory parameter
- * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
- * `104` - No database found, may occur when a given database has not been loaded onto a test server
- * `105` - Internal server error, a catch-all for unexpected errors
- * `106` - No object found, i.e. the request contains a code that references no object in the database
- * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
- * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
- * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
- * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
- * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

38.4 POST /webhook/{c}

Register a new webhook

The customer registers a new webhook with Semestry.
The table below describes a list of available webhook types:

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 60 chars	The code chosen by the customer to identify the webhook.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*t	string 1 to 255 chars	The type of webhook, for example 'activity.new' is a webhook for Activity creation
h	string 5 to 500 chars	An HTTP header to be sent by Semestry to the customer when the webhook is invoked.
*u	string 5 to 500 chars	The URL to be called by Semestry when the webhook is invoked.
v	string 1 to 20 chars	The verb (GET, POST, ...) to be used by Semestry when calling the webhook
e	string 5 to 500 chars	The email to which Semestry sends notifications if/when the webhook call fails.

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:0
  message*   string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                                     Error codes:
                                     * `100` - Bad API key, e.g. too short or malformed
                                     * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                                     * `102` - Missing mandatory parameter
                                     * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                                     presence of another parameter
                                     * `104` - No database found, may occur when a given database has not been loaded onto a test server
                                     * `105` - Internal server error, a catch-all for unexpected errors
                                     * `106` - No object found, i.e. the request contains a code that references no object in the database
                                     * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                                     database
                                     * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                                     the query parameters
                                     * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                                     * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                                     Department(s)
                                     * `114` - Object in use - e.g., Student groups are linked to Activities
  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

38.5 DELETE /webhook/{c}

Delete a webhook

Delete an existing webhook

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 60 chars	The code chosen by the customer to identify the webhook.

RESPONSE

STATUS CODE - 200: Success - the webhook was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

```
message* string
}
```

38.6 GET /webhook/timetable

Get all timetable-related webhooks

Returns the list of all webhooks associated with the supplied API key.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A JSON array of JSON objects describing each webhook.

RESPONSE MODEL - application/json

```
[{
  Array of object:
    c      string  1 to 60 chars
              Any code that the customer wants to assign to the webhook to identify it.
    t      string  1 to 255 chars
              The type of object that, when changed, will cause the webhook to be invoked.
    h      string  5 to 500 chars
              An HTTP header to be sent by Semestry to the customer when the webhook is invoked.
    u      string  5 to 500 chars
              The URL to be called by Semestry when the webhook is invoked.
    v      string  1 to 20 chars
              The verb (GET, POST, ...) to be used by Semestry when calling the webhook.
    e      string  5 to 500 chars
              The email to which Semestry sends notifications if/when the webhook call fails.
    success integer  The number of times that Semestry has called the webhook successfully.
    failure integer  The number of times that Semestry has tries and failed to call the webhook successfully.
    database string   name of the database
}]
```

38.7 GET /webhook/timetable/{c}

Get one timetable-related webhook

Returns the identified webhook associated with the supplied API key.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 60 chars	The code chosen by the customer to identify the webhook.

RESPONSE

STATUS CODE - 200: A JSON object describing the webhook.

RESPONSE MODEL - application/json

```
{
  c      string  1 to 60 chars
```

t	string	1 to 255 chars	Any code that the customer wants to assign to the webhook to identify it.
h	string	5 to 500 chars	The type of object that, when changed, will cause the webhook to be invoked.
u	string	5 to 500 chars	An HTTP header to be sent by Semestry to the customer when the webhook is invoked.
v	string	1 to 20 chars	The URL to be called by Semestry when the webhook is invoked.
e	string	5 to 500 chars	The verb (GET, POST, ...) to be used by Semestry when calling the webhook.
success	integer		The email to which Semestry sends notifications if/when the webhook call fails.
failure	integer		The number of times that Semestry has called the webhook successfully.
database	string		The number of times that Semestry has tries and failed to call the webhook successfully.
			name of the database

}

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message*   string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  message*   string

  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                  Error codes:
                  * `100` - Bad API key, e.g. too short or malformed
                  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                  * `102` - Missing mandatory parameter
                  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
                  presence of another parameter
                  * `104` - No database found, may occur when a given database has not been loaded onto a test server
                  * `105` - Internal server error, a catch-all for unexpected errors
                  * `106` - No object found, i.e. the request contains a code that references no object in the database
                  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                  database
                  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                  the query parameters
                  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                  Department(s)
                  * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

38.8 PUT /webhook/timetable/{c}

Update an existing timetable-related webhook.

The customer updates an existing webhook with Semester.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 60 chars	The code chosen by the customer to identify the webhook.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
h	string 5 to 500 chars	An HTTP header to be sent by Semester to the customer when the webhook is invoked.
u	string 5 to 500 chars	The URL to be called by Semester when the webhook is invoked.
v	string 1 to 20 chars	The verb (GET, POST, ...) to be used by Semester when calling the webhook
e	string 5 to 500 chars	The email to which Semester sends notifications if/when the webhook call fails.

RESPONSE

STATUS CODE - 200: Success - the webhook was updated

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                  Error codes:
                  * `100` - Bad API key, e.g. too short or malformed
                  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                  * `102` - Missing mandatory parameter
                  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the

```


presence of another parameter
 * `104` - No database found, may occur when a given database has not been loaded onto a test server
 * `105` - Internal server error, a catch-all for unexpected errors
 * `106` - No object found, i.e. the request contains a code that references no object in the database
 * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the database
 * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in the query parameters
 * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
 * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant Department(s)
 * `114` - Object in use - e.g., Student groups are linked to Activities

```
message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```
{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
  Error codes:
  * `100` - Bad API key, e.g. too short or malformed
  * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
  * `102` - Missing mandatory parameter
  * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
  presence of another parameter
  * `104` - No database found, may occur when a given database has not been loaded onto a test server
  * `105` - Internal server error, a catch-all for unexpected errors
  * `106` - No object found, i.e. the request contains a code that references no object in the database
  * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
  database
  * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
  the query parameters
  * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
  * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
  Department(s)
  * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

38.9 POST /webhook/timetable/{c}

Register a new timetable-related webhook.

The customer registers a new webhook with Semestry.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 60 chars	The code chosen by the customer to identify the webhook.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*t	string 1 to 255 chars	The type of webhook, for example 'activity.new' is a webhook for Activity creation
h	string 5 to 500 chars	An HTTP header to be sent by Semestry to the customer when the webhook is invoked.
*u	string 5 to 500 chars	The URL to be called by Semestry when the webhook is invoked.
v	string 1 to 20 chars	The verb (GET, POST, ...) to be used by Semestry when calling the webhook
e	string 5 to 500 chars	The email to which Semestry sends notifications if/when the webhook call fails.

RESPONSE

STATUS CODE - 200: The operation requested completed without error

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:0
  message* string
}
```

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```
{
  code*    enum    ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
              Error codes:
              * `100` - Bad API key, e.g. too short or malformed
              * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
              * `102` - Missing mandatory parameter
              * `103` - Missing optional parameter, used when the presence of one parameter is required because of the
              presence of another parameter
              * `104` - No database found, may occur when a given database has not been loaded onto a test server
              * `105` - Internal server error, a catch-all for unexpected errors
              * `106` - No object found, i.e. the request contains a code that references no object in the database
              * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
              database
              * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
              the query parameters
              * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
              * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
              Department(s)
              * `114` - Object in use - e.g., Student groups are linked to Activities

  message* string
}
```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```
{
```

```

code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
Error codes:
* `100` - Bad API key, e.g. too short or malformed
* `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
* `102` - Missing mandatory parameter
* `103` - Missing optional parameter, used when the presence of one parameter is required because of the
presence of another parameter
* `104` - No database found, may occur when a given database has not been loaded onto a test server
* `105` - Internal server error, a catch-all for unexpected errors
* `106` - No object found, i.e. the request contains a code that references no object in the database
* `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
database
* `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
the query parameters
* `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
* `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
Department(s)
* `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

38.10 DELETE /webhook/timetable/{c}

Delete a timetable-related webhook

Delete an existing timetable-related webhook.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*c	string 1 to 60 chars	The code chosen by the customer to identify the webhook.

RESPONSE

STATUS CODE - 200: Success - the webhook was deleted

STATUS CODE - 400: There's a problem with the contents of the request

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                    Error codes:
                    * `100` - Bad API key, e.g. too short or malformed
                    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                    * `102` - Missing mandatory parameter
                    * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                    presence of another parameter
                    * `104` - No database found, may occur when a given database has not been loaded onto a test server
                    * `105` - Internal server error, a catch-all for unexpected errors
                    * `106` - No object found, i.e. the request contains a code that references no object in the database
                    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                    database
                    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                    the query parameters
                    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                    Department(s)
                    * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 401: The 'api' user lacks authorisation for the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                    Error codes:
                    * `100` - Bad API key, e.g. too short or malformed
                    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                    * `102` - Missing mandatory parameter
                    * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                    presence of another parameter
                    * `104` - No database found, may occur when a given database has not been loaded onto a test server
                    * `105` - Internal server error, a catch-all for unexpected errors
                    * `106` - No object found, i.e. the request contains a code that references no object in the database
                    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                    database
                    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                    the query parameters
                    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                    Department(s)
                    * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

STATUS CODE - 500: An unanticipated situation is preventing the server from completing the operation

RESPONSE MODEL - application/json

```

{
  code*      enum      ALLOWED:100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 114
                    Error codes:
                    * `100` - Bad API key, e.g. too short or malformed
                    * `101` - Unrecognised API key, i.e. not on the pre-agreed list of keys
                    * `102` - Missing mandatory parameter
                    * `103` - Missing optional parameter, used when the presence of one parameter is required beacuse of the
                    presence of another parameter
                    * `104` - No database found, may occur when a given database has not been loaded onto a test server
                    * `105` - Internal server error, a catch-all for unexpected errors
                    * `106` - No object found, i.e. the request contains a code that references no object in the database
                    * `107` - Multiple objects found, i.e. the request contains a code that references more than one object in the
                    database
                    * `108` - Key not found in JSON, i.e. the API key was not found in the Authorization header and it was not found in
                    the query parameters
                    * `109` - Parameter has wrong format, e.g. a string was provided where a number was needed
                    * `110` - Unauthorized, i.e. the user 'api' has not been configured with Create, Edit or Delete rights for the relevant
                    Department(s)
                    * `114` - Object in use - e.g., Student groups are linked to Activities

  message*   string
}

```

