System API Design

# Module Registration API

The job of **Module Registration** API is to take a user and an academic year and return a list of modules. Admin users can also CRUD modules.

Consider use of API key in Authorisation header (front-end server will have a hard-coded API key).  
The default prefix path for all Module Registration resources is “/api/modules” unless stated differently with a different “/api” prefix.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Resource** | **GET**  read | **POST**  create | **PUT**  update | **DELETE** |
|  | Return a list of modules | Create a new module | Method Not Allowed (405) | Method Not Allowed (405) |
| /{id} | Get a specific module | Method Not Allowed (405) | Update a specific module | Delete a specific module |
| /year/{year}/code/{code} | Returns a specific module given its module code and year. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /year/{year}/{uid} | Returns a list of modules from a given year that is associated with a specific user. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /user/{uid} | Gets all modules for a specific user. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /year/{year} | Get all modules for a specific year. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /{id}/students | Get the registered students for a specific module. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /{id}/staff | Gets the registered staff for a specified module. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /api/data/students/{class\_code} | Method Not Allowed (405) | Adds to the current student and module\_student list from CSV | Method Not Allowed (405) | Method Not Allowed (405) |
| /api/data/staff/{class\_code}/{year} | Method Not Allowed (405) | Empty and reload the staff and module\_staff list from CSV | Method Not Allowed (405) | Method Not Allowed (405) |
| /api/data/modules | Method Not Allowed (405) | Empty and reload the module list from CSV | Method Not Allowed (405) | Method Not Allowed (405) |
| /api/students | Returns all student entities. | Create a student entity. | Method Not Allowed (405) | Delete all student entities. |
| /api/students/{uid} | Method Not Allowed (405) | Method Not Allowed (405) | Update a specific student entity. | Delete a specific student entity. |
| /api/students/{uid}/{mid} | Get a list of module\_student links for a specific module. | Add a student to a module\_student link for a specific module. | Method Not Allowed (405) | Delete a student from a module\_student link for a specific module. |
| /api/staff | Returns all staff entities. | Create a staff entity. | Method Not Allowed (405) | Delete all staff entities. |
| /api/staff/uids | Return a list of all staff user ID’s. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /api/staff/{uid} | Method Not Allowed (405) | Method Not Allowed (405) | Update a specific staff entity. | Delete a specific staff entity. |
| /api/staff/{uid}/{mid} | Get a list of module\_staff links for a specific module. | Add a staff member to a module\_staff link for a specific module. | Method Not Allowed (405) | Delete a staff member from a module\_staff link for a specific module. |

# Notifications API

The **Notifications** application will provide an API to update user notification settings. The front-end server will use this API. The notifications component will also have to access the Message Store’s API to get messages to email.

Consider use of API key in Authorisation header (font-end server will have a hard-coded API key).  
The default prefix path for all Notification resources is “/api/usernotifications” unless stated differently with a different “/api” prefix.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Resource** | **GET**  read | **POST**  create | **PUT**  update | **DELETE** |
|  | Method Not Allowed (405) | Create a new notification settings entry. | Method Not Allowed (405) | Method Not Allowed (405) |
| /{uid} | Returns a specific users’ notification settings. | Method Not Allowed (405) | Updates a specific user’s notification settings. | Deletes a specific user’s notification settings. |

# Message Store API

The **Message Store** provides an API to the front-end server and to the notifications application.  
The default prefix path for all Message Store resources is “/MessageStore/api” unless stated differently with a different “/api” prefix.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Resource** | **GET**  read | **POST**  create | **PUT**  update | **DELETE** |
| /messages | Get all messages. | Create a new message. | Method Not Allowed (405) | Method Not Allowed (405) |
| /messages/{id}/{uid} | Method Not Allowed (405) | Create a new association between user and message. | Method Not Allowed (405) | Method Not Allowed (405) |
| /messages/{id} | Returns a specific message | Method Not Allowed (405) | Updates a specific message | Deletes a specific message |
| /messages/{id}/seen | Method Not Allowed (405) | Marks a message as having been seen by a user. | Method Not Allowed (405) | Method Not Allowed (405) |
| /messages/delete/{id} | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) | Marks a message as deleted. |
| /messages/user/{uid} | Get all of a user’s messages. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /messages/replies/{uid} | Get the messages required for a given user’s reply summary. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /messages/mentions/{uid} | Get the messages required for a given user’s mentions summary. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /messages/daily/{uid} | Get the messages required for a given user’s daily summary. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /messages/group/{group\_id} | Get a list of all messages from a specific group. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /messages/search | Method Not Allowed (405) | Search the message store using SolR to return messages matching either a specific group module or year. | Method Not Allowed (405) | Method Not Allowed (405) |