

Getting started with Eduamp API

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For the backend, Continuous Integration is used to ensure that the code that is pushed to the development branches is always in working condition, and that the developers working on the backend are immediately notified of any failure in tests so that the failures/errors can be remedied as soon as possible. Travis is used for Continuous Integration in the backend. Upon adding any new features, a Pull Request is raised for integrating the changes in the development branch into the master branch. Travis will help test the Pull Request commits and branch, and let all parties involved know of the test results. After testing the logic of the code, load testing is done on the application. Once both test passes, the requested code vetter will vet changes in the code/file to ensure that certain standards, i.e. Google java Style, is used for the incoming changes. This way, the changes are doubly checked by both automated testing and code reviewer to ensure working and standardised code is always in the master branch.

This is the documentation for eduamp APIs and are automatically generated through tests which were written to test use cases for the eduamp application. At the end of each test case (after comparing expected outputs to true outputs), the `.andDo(document(...))` method is called to document the method and pretty print the request and response body. Click on the hyperlinks on the left of this page to jump to the section desired. For each action, 3 sample requests and 3 sample responses are provided.

Do note that while the documentation of the APIs are in the format `http://localhost:8080/<Documented API endpoint>`, the actual format of the APIs are as follows: `http://localhost:8080/eduamp/api<Documented API endpoint>`

oAuth

Login user if credentials are valid

Request sample with curl

```
$ curl 'http://localhost:8080/oauth/token' -i -u 'my-client:my-secret' -X POST \
-H 'Content-Type: application/x-www-form-urlencoded;charset=UTF-8' \
-d 'username=create-student%40test.com&password=password&grant_type=password'
```

BASH

Request sample with http

```
POST /oauth/token HTTP/1.1
Content-Type: application/x-www-form-urlencoded;charset=UTF-8
Authorization: Basic bXktY2xpZW50m15LXNlY3JldA==
Host: localhost:8080
```

HTTP

```
username=create-student%40test.com&password=password&grant_type=password
```

Request sample with httpie

```
$ http --form --auth 'my-client:my-secret' POST 'http://localhost:8080/oauth/token' \
'Content-Type:application/x-www-form-urlencoded;charset=UTF-8' \
'username=create-student@test.com' \
'password=password' \
'grant_type=password'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json;charset=UTF-8
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 203

{
  "access_token" : "02e40e8f-6033-4a24-a798-833bdefcc5b9",
  "token_type" : "bearer",
  "refresh_token" : "58ca0b47-f65c-410b-adea-68a5231d1a5e",
  "expires_in" : 7199,
  "scope" : "read write trust"
}
```

HTTP

Request sample

Response sample

```
{
  "access_token" : "02e40e8f-6033-4a24-a798-833bdefcc5b9",
  "token_type" : "bearer",
  "refresh_token" : "58ca0b47-f65c-410b-adea-68a5231d1a5e",
  "expires_in" : 7199,
  "scope" : "read write trust"
}
```

Logout if valid session

Request sample with curl

```
$ curl 'http://localhost:8080/oauth/revoke' -i -X DELETE \
-H 'Accept: application/json' \
-H 'Authorization: Bearer 7ca74b10-4793-4eb4-a612-b22f8d9889c6'
```

BASH

Request sample with http

```
DELETE /oauth/revoke HTTP/1.1
Accept: application/json
Authorization: Bearer 7ca74b10-4793-4eb4-a612-b22f8d9889c6
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/oauth/revoke' \
  'Accept:application/json' \
  'Authorization:Bearer 7ca74b10-4793-4eb4-a612-b22f8d9889c6'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

HTTP

Request sample

Response sample

Reject user if credentials are invalid

Request sample with curl

```
$ curl 'http://localhost:8080/oauth/token' -i -u 'my-client:my-secret' -X POST \
  -H 'Content-Type: application/x-www-form-urlencoded;charset=UTF-8' \
  -d 'username=invalid_account%40test.com&password=invalid_password&grant_type=password'
```

BASH

Request sample with http

```
POST /oauth/token HTTP/1.1
Content-Type: application/x-www-form-urlencoded;charset=UTF-8
Authorization: Basic bXktY2xpZW50m15LXN1Y3JldA==
Host: localhost:8080

username=invalid_account%40test.com&password=invalid_password&grant_type=password
```

HTTP

Request sample with httpie

```
$ http --form --auth 'my-client:my-secret' POST 'http://localhost:8080/oauth/token' \
  'Content-Type:application/x-www-form-urlencoded;charset=UTF-8' \
  'username=invalid_account@test.com' \
  'password=invalid_password' \
  'grant_type=password'
```

BASH

HTTP response

```
HTTP/1.1 400 Bad Request
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 74

{
  "error" : "invalid_grant",
  "error_description" : "Bad credentials"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "invalid_grant",
  "error_description" : "Bad credentials"
}
```

Logout with invalid Session

Request sample with curl

```
$ curl 'http://localhost:8080/oauth/revoke' -i -X DELETE \
  -H 'Accept: application/json' \
  -H 'Authorization: Bearer invalidToken'
```

BASH

Request sample with http

```
DELETE /oauth/revoke HTTP/1.1
Accept: application/json
Authorization: Bearer invalidToken
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/oauth/revoke' \
  'Accept:application/json' \
  'Authorization:Bearer invalidToken'
```

BASH

HTTP response

```
HTTP/1.1 401 Unauthorized
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
WWW-Authenticate: Bearer realm="resource_id", error="invalid_token", error_description="Invalid access token: invalidToken"
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 93

{
  "error" : "invalid_token",
  "error_description" : "Invalid access token: invalidToken"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "invalid_token",
  "error_description" : "Invalid access token: invalidToken"
}
```

Admin

Allow request to get list of tokens if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/admin/token/list' -i -X GET \
-H 'Content-Type: application/x-www-form-urlencoded;charset=UTF-8'
```

BASH

Request sample with http

```
GET /admin/token/list HTTP/1.1
Content-Type: application/x-www-form-urlencoded;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/admin/token/list' \
'Content-Type:application/x-www-form-urlencoded;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 42

[ "fb18cb89-a3fa-419d-a8c8-44b822048ba9" ]
```

HTTP

Request sample

Response sample

```
[ "fb18cb89-a3fa-419d-a8c8-44b822048ba9" ]
```

Reject request to get list of tokens if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/admin/token/list' -i -X GET \
-H 'Content-Type: application/x-www-form-urlencoded;charset=UTF-8'
```

BASH

Request sample with http

```
GET /admin/token/list HTTP/1.1
Content-Type: application/x-www-form-urlencoded;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/admin/token/list' \
'Content-Type:application/x-www-form-urlencoded;charset=UTF-8'
```

BASH

HTTP response


```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75
```

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

User

Create user if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/users/create' -i -X POST \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "email" : "create-student@test.com",
    "pass" : "password",
    "role" : "ROLE_STUDENT",
    "name" : "name"
  }'
```

BASH

Request sample with http

```
POST /users/create HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 110
Host: localhost:8080

{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

HTTP

Request sample with httpie

```
$ echo '{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}' | http POST 'http://localhost:8080/users/create' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 87

{
  "email" : "create-student@test.com",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

HTTP

Request sample

```
{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

Response sample

```
{
  "email" : "create-student@test.com",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

Allow delete user if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/users/create-student@test.com' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /users/create-student@test.com HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/users/create-student@test.com' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Disposition: inline;filename=f.txt
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 4
```

HTTP

true

Request sample

Response sample

true

Fetch user if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/users/me' -i -X POST \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Authorization: Bearer 64db4096-1840-4a54-a449-4e522a3ef4d1'
```

BASH

Request sample with http

```
POST /users/me HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer 64db4096-1840-4a54-a449-4e522a3ef4d1
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http POST 'http://localhost:8080/users/me' \
'Content-Type:application/json;charset=UTF-8' \
'Authorization:Bearer 64db4096-1840-4a54-a449-4e522a3ef4d1'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 87

{
  "email" : "create-student@test.com",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

HTTP

Request sample

Response sample

```
{
  "email" : "create-student@test.com",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

Allow fetch users if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/users/' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /users/ HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/users/' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```

HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 570

```

```

{
  "content" : [ {
    "email" : "create-student@test.com",
    "role" : "ROLE_STUDENT",
    "name" : "name"
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}

```

Request sample

Response sample

```

{
  "content" : [ {
    "email" : "create-student@test.com",
    "role" : "ROLE_STUDENT",
    "name" : "name"
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}

```

Allow update user if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/users/create-student@test.com' -i -X PUT \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "email" : "create-student@test.com",
    "pass" : "password",
    "role" : "ROLE_STUDENT",
    "name" : "new name"
  }'
```

BASH

Request sample with http

```
PUT /users/create-student@test.com HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 114
Host: localhost:8080
```

```
{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "new name"
}
```

HTTP

Request sample with httpie

```
$ echo '{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "new name"
}' | http PUT 'http://localhost:8080/users/create-student@test.com' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Disposition: inline;filename=f.txt
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 91
```

```
{
  "email" : "create-student@test.com",
  "role" : "ROLE_STUDENT",
  "name" : "new name"
}
```

HTTP

Request sample

```
{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "new name"
}
```

Response sample

```
{
  "email" : "create-student@test.com",
  "role" : "ROLE_STUDENT",
  "name" : "new name"
}
```

Reject creation of user if admin is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/users/create' -i -X POST \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}'
```

BASH

Request sample with http

```
POST /users/create HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 110
Host: localhost:8080

{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

HTTP

Request sample with httpie

```
$ echo '{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}' | http POST 'http://localhost:8080/users/create' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject creation of user if user already exists

Request sample with curl

```
$ curl 'http://localhost:8080/users/create' -i -X POST \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}'
```

BASH

Request sample with http

```
POST /users/create HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 110
Host: localhost:8080
```

HTTP

```
{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

Request sample with httpie

```
$ echo '{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}' | http POST 'http://localhost:8080/users/create' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 400 Bad Request
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

HTTP

Request sample

```
{
  "email" : "create-student@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

Response sample

Reject delete user if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/users/create-student@test.com' -i -X DELETE \
  -H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /users/create-student@test.com HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/users/create-student@test.com' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response


```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject delete user if user does not exist

Request sample with curl

```
$ curl 'http://localhost:8080/users/create-student@test.com' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /users/create-student@test.com HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/users/create-student@test.com' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 404 Not Found
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

HTTP

Request sample

Response sample

Reject fetch user if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/users/me' -i -X POST \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
POST /users/me HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http POST 'http://localhost:8080/users/me' \  
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 404 Not Found  
Access-Control-Allow-Origin: *  
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT  
Access-Control-Max-Age: 3600  
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization  
X-Content-Type-Options: nosniff  
X-XSS-Protection: 1; mode=block  
Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
Pragma: no-cache  
Expires: 0  
X-Frame-Options: DENY
```

HTTP

Request sample

Response sample

Reject fetch users if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/users/' -i -X GET \  
  -H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /users/ HTTP/1.1  
Content-Type: application/json;charset=UTF-8  
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/users/' \  
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden  
Access-Control-Allow-Origin: *  
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT  
Access-Control-Max-Age: 3600  
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization  
Cache-Control: no-store  
Pragma: no-cache  
Content-Type: application/json  
X-Content-Type-Options: nosniff  
X-XSS-Protection: 1; mode=block  
X-Frame-Options: DENY  
Content-Length: 75  
  
{  
  "error" : "access_denied",  
  "error_description" : "Access is denied"  
}
```

HTTP

Request sample

Response sample

```
{  
  "error" : "access_denied",  
  "error_description" : "Access is denied"  
}
```

Reject update user if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/users/create-student@test.com' -i -X PUT \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "email" : "newEmail@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}'
```

BASH

Request sample with http

```
PUT /users/create-student@test.com HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 104
Host: localhost:8080

{
  "email" : "newEmail@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

HTTP

Request sample with httpie

```
$ echo '{
  "email" : "newEmail@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}' | http PUT 'http://localhost:8080/users/create-student@test.com' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
{
  "email" : "newEmail@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject update user if user does not exist

Request sample with curl

```
$ curl 'http://localhost:8080/users/user1@test.com' -i -X PUT \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "email" : "newEmail@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}'
```

BASH

Request sample with http

```
PUT /users/user1@test.com HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 104
Host: localhost:8080
```

HTTP

```
{
  "email" : "newEmail@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

Request sample with httpie

```
$ echo '{
  "email" : "newEmail@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}' | http PUT 'http://localhost:8080/users/user1@test.com' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 404 Not Found
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

HTTP

Request sample

```
{
  "email" : "newEmail@test.com",
  "pass" : "password",
  "role" : "ROLE_STUDENT",
  "name" : "name"
}
```

Response sample

Topic

Allow create topic if authorized

Request sample with curl

BASH

```
$ curl 'http://localhost:8080/topics/create' -i -X POST \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "title" : "[Topic Title]: Multiplication",
    "description" : "[Topic Description]: This topic is about simple multiplication",
    "gameMaps" : null
  }'
```

Request sample with http

HTTP

```
POST /topics/create HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 266
Host: localhost:8080

{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Request sample with httpie

BASH

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}' | http POST 'http://localhost:8080/topics/create' \
  'Content-Type:application/json;charset=UTF-8'
```

HTTP response

HTTP

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 348

{
  "id" : 5,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:54:08.762+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.762+0000",
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Response sample

```
{
  "id" : 5,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:54:08.762+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.762+0000",
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Allow fetch topic if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/5' -i -X GET \
  -H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /topics/5 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/topics/5' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 347

{
  "id" : 5,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:54:08.762+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.762+0000",
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : [ ]
}
```

HTTP

Request sample

Response sample

```
{
  "id" : 5,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:54:08.762+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.762+0000",
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : [ ]
}
```

Allow fetch topics if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/' -i -X GET \
  -H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /topics/ HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/topics/' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 840
```

HTTP

```
{
  "content" : [ {
    "id" : 5,
    "createdBy" : "teacher1@test.com",
    "createdDate" : "2020-04-21T08:54:08.762+0000",
    "lastModifiedBy" : "teacher1@test.com",
    "lastModifiedDate" : "2020-04-21T08:54:08.762+0000",
    "title" : "[Topic Title]: Multiplication",
    "description" : "[Topic Description]: This topic is about simple multiplication",
    "gameMaps" : [ ]
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

Request sample

Response sample

```
{
  "content" : [ {
    "id" : 5,
    "createdBy" : "teacher1@test.com",
    "createdAt" : "2020-04-21T08:54:08.762+0000",
    "lastModifiedBy" : "teacher1@test.com",
    "lastModifiedDate" : "2020-04-21T08:54:08.762+0000",
    "title" : "[Topic Title]: Multiplication",
    "description" : "[Topic Description]: This topic is about simple multiplication",
    "gameMaps" : [ ]
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

Allow update of topic if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/5' -i -X PUT \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdAt" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "title" : "This is a new title",
    "description" : "[Topic Description]: This topic is about simple multiplication",
    "gameMaps" : null
  }'
```

BASH

Request sample with http

```
PUT /topics/5 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 256
Host: localhost:8080

{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a new title",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

HTTP

Request sample with httpie


```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a new title",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}' | http PUT 'http://localhost:8080/topics/5' \
  'Content-Type:application/json;charset=UTF-8'
```

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 337

{
  "id" : 5,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:54:08.762+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.762+0000",
  "title" : "This is a new title",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : [ ]
}
```

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a new title",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Response sample

```
{
  "id" : 5,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:54:08.762+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.762+0000",
  "title" : "This is a new title",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : [ ]
}
```

Allow patch topic if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/5' -i -X PATCH \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdAt" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "title" : "This is a new title",
    "description" : "[Topic Description]: This topic is about simple multiplication",
    "gameMaps" : null
  },'
```

Request sample with http

```
PATCH /topics/5 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 256
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a new title",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Request sample with httpie

BASH

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a new title",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}' | http PATCH 'http://localhost:8080/topics/5' \
  'Content-Type:application/json;charset=UTF-8'
```

HTTP response

HTTP

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 337
```

```
{
  "id" : 5,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:54:08.762+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.762+0000",
  "title" : "This is a new title",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : [ ]
}
```

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a new title",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Response sample

```
{
  "id" : 5,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:54:08.762+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.762+0000",
  "title" : "This is a new title",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : [ ]
}
```

Allow delete if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/5' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /topics/5 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/topics/5' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 4

true
```

HTTP

Request sample

Response sample

```
true
```

Reject create topic if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/create' -i -X POST \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}'
```

BASH

Request sample with http

```
POST /topics/create HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 266
Host: localhost:8080

{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

HTTP

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}' | http POST 'http://localhost:8080/topics/create' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject delete topic if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/5' -i -X DELETE \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdAt" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "title" : "[Topic Title]: Multiplication",
    "description" : "[Topic Description]: This topic is about simple multiplication",
    "gameMaps" : null
  }'
```

BASH

Request sample with http

```
DELETE /topics/5 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 266
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Request sample with httpie

BASH

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}' | http DELETE 'http://localhost:8080/topics/5' \
  'Content-Type:application/json;charset=UTF-8'
```

HTTP response

HTTP

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject fetch topic if not authorized

Request sample with curl

BASH

```
$ curl 'http://localhost:8080/topics/5' -i -X GET \
  -H 'Content-Type: application/json;charset=UTF-8'
```

Request sample with http

HTTP

```
GET /topics/5 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

Request sample with httpie

```
$ http GET 'http://localhost:8080/topics/5' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject fetch topics if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/' -i -X GET \
  -H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /topics/ HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/topics/' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject update topic if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1' -i -X PUT \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "title" : "[Topic Title]: Multiplication",
    "description" : "[Topic Description]: This topic is about simple multiplication",
    "gameMaps" : null
  }'
```

BASH

Request sample with http

```
PUT /topics/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 266
Host: localhost:8080

{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

HTTP

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}' | http PUT 'http://localhost:8080/topics/1' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject patch topic if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1' -i -X PATCH \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdAt" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "title" : "[Topic Title]: Multiplication",
    "description" : "[Topic Description]: This topic is about simple multiplication",
    "gameMaps" : null
  }'
```

BASH

Request sample with http

```
PATCH /topics/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 266
Host: localhost:8080

{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

HTTP

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}' | http PATCH 'http://localhost:8080/topics/1' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response


```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject delete topic if topic does not exist

Request sample with curl

```
$ curl 'http://localhost:8080/topics/4' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}'
```

BASH

Request sample with http

```
DELETE /topics/4 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 266
Host: localhost:8080

{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

HTTP

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}' | http DELETE 'http://localhost:8080/topics/4' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 404 Not Found
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

HTTP

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "[Topic Title]: Multiplication",
  "description" : "[Topic Description]: This topic is about simple multiplication",
  "gameMaps" : null
}
```

Response sample

Game Map

Allow creation of game map if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1/gameMaps/create' -i -X POST \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "title" : "This is a title",
    "description" : "This is a description",
    "mapDescriptor" : "This is a map descriptor",
    "questions" : null,
    "learningMaterials" : null,
    "progresses" : null,
    "topic" : null,
    "playable" : false
  }'
```

BASH

Request sample with http

```
POST /topics/1/gameMaps/create HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 353
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}
```

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}' | http POST 'http://localhost:8080/topics/1/gameMaps/create' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 432
```

HTTP

```
{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:53:57.680+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:57.680+0000",
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : 1,
  "playable" : false
}
```

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}
```

Response sample

```
{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:53:57.680+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:57.680+0000",
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : 1,
  "playable" : false
}
```

Allow fetching of game map if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1/gameMaps/1' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /topics/1/gameMaps/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/topics/1/gameMaps/1' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

HTTP

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 429

{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:53:57.680+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:57.680+0000",
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a map descriptor",
  "questions" : [ ],
  "learningMaterials" : [ ],
  "progresses" : [ ],
  "topic" : 1,
  "playable" : false
}
```

Request sample

Response sample

```
{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:53:57.680+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:57.680+0000",
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a map descriptor",
  "questions" : [ ],
  "learningMaterials" : [ ],
  "progresses" : [ ],
  "topic" : 1,
  "playable" : false
}
```

Allow fetching of game maps if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1/gameMaps' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /topics/1/gameMaps HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/topics/1/gameMaps' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 932
```

```
{
  "content" : [ {
    "id" : 1,
    "createdBy" : "teacher1@test.com",
    "createdDate" : "2020-04-21T08:53:57.680+0000",
    "lastModifiedBy" : "teacher1@test.com",
    "lastModifiedDate" : "2020-04-21T08:53:57.680+0000",
    "title" : "This is a title",
    "description" : "This is a description",
    "mapDescriptor" : "This is a map descriptor",
    "questions" : [ ],
    "learningMaterials" : [ ],
    "progresses" : [ ],
    "topic" : 1,
    "playable" : false
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

Request sample

Response sample

```
{
  "content" : [ {
    "id" : 1,
    "createdBy" : "teacher1@test.com",
    "createdDate" : "2020-04-21T08:53:57.680+0000",
    "lastModifiedBy" : "teacher1@test.com",
    "lastModifiedDate" : "2020-04-21T08:53:57.680+0000",
    "title" : "This is a title",
    "description" : "This is a description",
    "mapDescriptor" : "This is a map descriptor",
    "questions" : [ ],
    "learningMaterials" : [ ],
    "progresses" : [ ],
    "topic" : 1,
    "playable" : false
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

Allow updating of game map if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1/gameMaps/1' -i -X PUT \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a edited map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}'
```

BASH

Request sample with http

```
PUT /topics/1/gameMaps/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 360
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a edited map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}
```

Request sample with httpie

BASH

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a edited map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}' | http PUT 'http://localhost:8080/topics/1/gameMaps/1' \
  'Content-Type:application/json;charset=UTF-8'
```

HTTP response

HTTP

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 436
```

```
{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:53:57.680+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:57.680+0000",
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a edited map descriptor",
  "questions" : [ ],
  "learningMaterials" : [ ],
  "progresses" : [ ],
  "topic" : 1,
  "playable" : false
}
```

Request sample


```
{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a edited map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}
```

Response sample

```
{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:53:57.680+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:57.680+0000",
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a edited map descriptor",
  "questions" : [ ],
  "learningMaterials" : [ ],
  "progresses" : [ ],
  "topic" : 1,
  "playable" : false
}
```

Allow deletion of game map if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1/gameMaps/1' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /topics/1/gameMaps/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/topics/1/gameMaps/1' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 4

true
```

HTTP

Request sample

Response sample

```
true
```

Reject creation of game map if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1/gameMaps/create' -i -X POST \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "title" : "This is a title",
    "description" : "This is a description",
    "mapDescriptor" : "This is a map descriptor",
    "questions" : null,
    "learningMaterials" : null,
    "progresses" : null,
    "topic" : null,
    "playable" : false
  }'
```

BASH

Request sample with http

```
POST /topics/1/gameMaps/create HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 353
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}
```

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}' | http POST 'http://localhost:8080/topics/1/gameMaps/create' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject fetching of game map if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1/gameMaps/1' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /topics/1/gameMaps/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/topics/1/gameMaps/1' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject fetching of game maps if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1/gameMaps' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /topics/1/gameMaps HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/topics/1/gameMaps' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject updating of game map if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1/gameMaps/1' -i -X PUT \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "title" : "This is a title",
    "description" : "This is a description",
    "mapDescriptor" : "This is a edited map descriptor",
    "questions" : null,
    "learningMaterials" : null,
    "progresses" : null,
    "topic" : null,
    "playable" : false
  }'
```

BASH

Request sample with http

```
PUT /topics/1/gameMaps/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 360
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a edited map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}
```

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a edited map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}' | http PUT 'http://localhost:8080/topics/1/gameMaps/1' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "title" : "This is a title",
  "description" : "This is a description",
  "mapDescriptor" : "This is a edited map descriptor",
  "questions" : null,
  "learningMaterials" : null,
  "progresses" : null,
  "topic" : null,
  "playable" : false
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject deleting of game map if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1/gameMaps/1' -i -X DELETE \
  -H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /topics/1/gameMaps/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/topics/1/gameMaps/1' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject deletion of game map if game map does not exist

Request sample with curl

```
$ curl 'http://localhost:8080/topics/1/gameMaps/0' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /topics/1/gameMaps/0 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/topics/1/gameMaps/0' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 404 Not Found
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

HTTP

Request sample

Response sample

Learning Material

Create Learning Material if Authorized

Request sample with curl

BASH

```
$ curl 'http://localhost:8080/gameMaps/2/learningMaterials/create' -i -X POST \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "gameMap" : null,
    "title" : "[Topic Title]: Multiplication",
    "link" : "http://test.com",
    "description" : "[Topic Description]: This topic is about simple multiplication"
  }'
```

Request sample with http

HTTP

```
POST /gameMaps/2/learningMaterials/create HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 295
Host: localhost:8080

{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "[Topic Title]: Multiplication",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Request sample with httpie

BASH

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "[Topic Title]: Multiplication",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}' | http POST 'http://localhost:8080/gameMaps/2/learningMaterials/create' \
  'Content-Type:application/json;charset=UTF-8'
```

HTTP response

HTTP

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 374

{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:53:58.616+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:58.616+0000",
  "gameMap" : 2,
  "title" : "[Topic Title]: Multiplication",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "[Topic Title]: Multiplication",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Response sample

```
{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:53:58.616+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:58.616+0000",
  "gameMap" : 2,
  "title" : "[Topic Title]: Multiplication",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Delete learning material if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/2/learningMaterials/1' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /gameMaps/2/learningMaterials/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/gameMaps/2/learningMaterials/1' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 4

true
```

HTTP

Request sample

Response sample

```
true
```

Fetch learning material if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/2/learningMaterials/1' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http


```
GET /gameMaps/2/learningMaterials/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/gameMaps/2/learningMaterials/1' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 374

{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:53:58.616+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:58.616+0000",
  "gameMap" : 2,
  "title" : "[Topic Title]: Multiplication",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

HTTP

Request sample

Response sample

```
{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:53:58.616+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:58.616+0000",
  "gameMap" : 2,
  "title" : "[Topic Title]: Multiplication",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Fetch learning materials if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/2/learningMaterials/' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /gameMaps/2/learningMaterials/ HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/gameMaps/2/learningMaterials/' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 869
```

```
{
  "content" : [ {
    "id" : 1,
    "createdBy" : "teacher1@test.com",
    "createdDate" : "2020-04-21T08:53:58.616+0000",
    "lastModifiedBy" : "teacher1@test.com",
    "lastModifiedDate" : "2020-04-21T08:53:58.616+0000",
    "gameMap" : 2,
    "title" : "[Topic Title]: Multiplication",
    "link" : "http://test.com",
    "description" : "[Topic Description]: This topic is about simple multiplication"
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

Request sample

Response sample

```
{
  "content" : [ {
    "id" : 1,
    "createdBy" : "teacher1@test.com",
    "createdDate" : "2020-04-21T08:53:58.616+0000",
    "lastModifiedBy" : "teacher1@test.com",
    "lastModifiedDate" : "2020-04-21T08:53:58.616+0000",
    "gameMap" : 2,
    "title" : "[Topic Title]: Multiplication",
    "link" : "http://test.com",
    "description" : "[Topic Description]: This topic is about simple multiplication"
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

Allow update of learning material if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/2/learningMaterials/1' -i -X PUT \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "gameMap" : null,
    "title" : "New title",
    "link" : "http://test.com",
    "description" : "[Topic Description]: This topic is about simple multiplication"
  }'
```

BASH

Request sample with http

```
PUT /gameMaps/2/learningMaterials/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 275
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "New title",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "New title",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}' | http PUT 'http://localhost:8080/gameMaps/2/learningMaterials/1' \
  'Content-Type:application/json;charset=UTF-8'
```

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 354

{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:53:58.616+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:58.616+0000",
  "gameMap" : 2,
  "title" : "New title",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "New title",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Response sample

```
{
  "id" : 1,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:53:58.616+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:53:58.616+0000",
  "gameMap" : 2,
  "title" : "New title",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Reject create learning material if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/2/learningMaterials/create' -i -X POST \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "gameMap" : null,
    "title" : "[Topic Title]: Multiplication",
    "link" : "http://test.com",
    "description" : "[Topic Description]: This topic is about simple multiplication"
  }'
```

BASH

Request sample with http

```
POST /gameMaps/2/learningMaterials/create HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 295
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "[Topic Title]: Multiplication",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "[Topic Title]: Multiplication",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}' | http POST 'http://localhost:8080/gameMaps/2/learningMaterials/create' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "[Topic Title]: Multiplication",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject delete learning material if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/2/learningMaterials/1' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /gameMaps/2/learningMaterials/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/gameMaps/2/learningMaterials/1' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject delete learning material if it does not exist

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/2/learningMaterials/0' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /gameMaps/2/learningMaterials/0 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/gameMaps/2/learningMaterials/0' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 404 Not Found
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

HTTP

Request sample

Response sample

Reject fetching of learning materials if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/2/learningMaterials/' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /gameMaps/2/learningMaterials/ HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/gameMaps/2/learningMaterials/' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject fetch learning material if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/2/learningMaterials/1' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /gameMaps/2/learningMaterials/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/gameMaps/2/learningMaterials/1' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject updating of learning material if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/2/learningMaterials/1' -i -X PUT \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "gameMap" : null,
    "title" : "New title",
    "link" : "http://test.com",
    "description" : "[Topic Description]: This topic is about simple multiplication"
  }'
```

BASH

Request sample with http

```
PUT /gameMaps/2/learningMaterials/1 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 275
Host: localhost:8080

{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "New title",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

HTTP

Request sample with httpie


```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "New title",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}' | http PUT 'http://localhost:8080/gameMaps/2/learningMaterials/1' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "title" : "New title",
  "link" : "http://test.com",
  "description" : "[Topic Description]: This topic is about simple multiplication"
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Question

Create question if Authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions/create' -i -X POST \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "gameMap" : null,
    "questionText" : "This is a question",
    "answer" : 1,
    "options" : {
      "1" : "Option 1",
      "2" : "Option 2",
      "3" : "Option 3",
      "4" : "Option 4"
    },
    "coordinates" : {
      "x" : 1,
      "y" : 1
    }
  }'
```

BASH

Request sample with http

```
POST /gameMaps/4/questions/create HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 351
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "This is a question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "This is a question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}' | http POST 'http://localhost:8080/gameMaps/4/questions/create' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```

HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 430

```

```

{
  "id" : 3,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:54:08.251+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
  "gameMap" : 4,
  "questionText" : "This is a question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}

```

Request sample

```

{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "This is a question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}

```

Response sample

```

{
  "id" : 3,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:54:08.251+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
  "gameMap" : 4,
  "questionText" : "This is a question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}

```

Allow fetching of question and show answer if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions/3' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /gameMaps/4/questions/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/gameMaps/4/questions/3' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 430
```

HTTP

```
{
  "id" : 3,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:54:08.251+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
  "gameMap" : 4,
  "questionText" : "This is a question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

Request sample

Response sample

```
{
  "id" : 3,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:54:08.251+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
  "gameMap" : 4,
  "questionText" : "This is a question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

Allow fetching of question but not show answer if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions/3' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /gameMaps/4/questions/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/gameMaps/4/questions/3' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 431

{
  "id" : 3,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:54:08.251+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
  "gameMap" : 4,
  "questionText" : "This is a question",
  "answer" : -1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

HTTP

Request sample

Response sample

```
{
  "id" : 3,
  "createdBy" : "teacher1@test.com",
  "createdAt" : "2020-04-21T08:54:08.251+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
  "gameMap" : 4,
  "questionText" : "This is a question",
  "answer" : -1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

Allow fetching of question by game map id but not show answer if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions' -i -X GET \
  -H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /gameMaps/4/questions HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/gameMaps/4/questions' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 944

{
  "content" : [ {
    "id" : 3,
    "createdBy" : "teacher1@test.com",
    "createdDate" : "2020-04-21T08:54:08.251+0000",
    "lastModifiedBy" : "teacher1@test.com",
    "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
    "gameMap" : 4,
    "questionText" : "This is a question",
    "answer" : -1,
    "options" : {
      "1" : "Option 1",
      "2" : "Option 2",
      "3" : "Option 3",
      "4" : "Option 4"
    },
    "coordinates" : {
      "x" : 1,
      "y" : 1
    }
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

HTTP

Request sample

Response sample

```
{
  "content" : [ {
    "id" : 3,
    "createdBy" : "teacher1@test.com",
    "createdDate" : "2020-04-21T08:54:08.251+0000",
    "lastModifiedBy" : "teacher1@test.com",
    "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
    "gameMap" : 4,
    "questionText" : "This is a question",
    "answer" : -1,
    "options" : {
      "1" : "Option 1",
      "2" : "Option 2",
      "3" : "Option 3",
      "4" : "Option 4"
    },
    "coordinates" : {
      "x" : 1,
      "y" : 1
    }
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

Allow fetching of question by game map id and show answer if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /gameMaps/4/questions HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/gameMaps/4/questions' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 943
```

```
{
  "content" : [ {
    "id" : 3,
    "createdBy" : "teacher1@test.com",
    "createdDate" : "2020-04-21T08:54:08.251+0000",
    "lastModifiedBy" : "teacher1@test.com",
    "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
    "gameMap" : 4,
    "questionText" : "This is a question",
    "answer" : 1,
    "options" : {
      "1" : "Option 1",
      "2" : "Option 2",
      "3" : "Option 3",
      "4" : "Option 4"
    },
    "coordinates" : {
      "x" : 1,
      "y" : 1
    }
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

Request sample

Response sample


```
{
  "content" : [ {
    "id" : 3,
    "createdBy" : "teacher1@test.com",
    "createdDate" : "2020-04-21T08:54:08.251+0000",
    "lastModifiedBy" : "teacher1@test.com",
    "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
    "gameMap" : 4,
    "questionText" : "This is a question",
    "answer" : 1,
    "options" : {
      "1" : "Option 1",
      "2" : "Option 2",
      "3" : "Option 3",
      "4" : "Option 4"
    },
    "coordinates" : {
      "x" : 1,
      "y" : 1
    }
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

Update question if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions/3' -i -X PUT \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "New question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}'
```

BASH

Request sample with http

```
PUT /gameMaps/4/questions/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 345
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "New question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

Request sample with httpie

BASH

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "New question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}' | http PUT 'http://localhost:8080/gameMaps/4/questions/3' \
  'Content-Type:application/json;charset=UTF-8'
```

HTTP response

HTTP

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 424
```

```
{
  "id" : 3,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:54:08.251+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
  "gameMap" : 4,
  "questionText" : "New question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "New question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

Response sample

```
{
  "id" : 3,
  "createdBy" : "teacher1@test.com",
  "createdDate" : "2020-04-21T08:54:08.251+0000",
  "lastModifiedBy" : "teacher1@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:08.251+0000",
  "gameMap" : 4,
  "questionText" : "New question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

Allow deleting of question by game map id if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions/3' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /gameMaps/4/questions/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/gameMaps/4/questions/3' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 4

true
```

HTTP

Request sample

Response sample

```
true
```

Reject creation of question if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions/create' -i -X POST \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "This is a question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}'
```

BASH

Request sample with http

```
POST /gameMaps/4/questions/create HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 351
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "This is a question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "This is a question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}' | http POST 'http://localhost:8080/gameMaps/4/questions/create' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "This is a question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject fetch question if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions/3' -i -X GET \
-H 'Content-Type: application/json; charset=UTF-8'
```

BASH

Request sample with http

```
GET /gameMaps/4/questions/3 HTTP/1.1
Content-Type: application/json; charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/gameMaps/4/questions/3' \
'Content-Type:application/json; charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject fetch questions by game map id if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /gameMaps/4/questions HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/gameMaps/4/questions' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject updating of question if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions/3' -i -X PUT \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "New question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}'
```

BASH

Request sample with http

```
PUT /gameMaps/4/questions/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 345
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "New question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}
```

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "New question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}' | http PUT 'http://localhost:8080/gameMaps/4/questions/3' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

HTTP

```

HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}

```

Request sample

```

{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "gameMap" : null,
  "questionText" : "New question",
  "answer" : 1,
  "options" : {
    "1" : "Option 1",
    "2" : "Option 2",
    "3" : "Option 3",
    "4" : "Option 4"
  },
  "coordinates" : {
    "x" : 1,
    "y" : 1
  }
}

```

Response sample

```

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}

```

Reject deleting of question by game map id if user is not authorized

Request sample with curl

```

$ curl 'http://localhost:8080/gameMaps/4/questions/3' -i -X DELETE \
  -H 'Content-Type: application/json;charset=UTF-8'

```

BASH

Request sample with http

```

DELETE /gameMaps/4/questions/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080

```

HTTP

Request sample with httpie

```

$ http DELETE 'http://localhost:8080/gameMaps/4/questions/3' \
  'Content-Type:application/json;charset=UTF-8'

```

BASH

HTTP response


```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject deleting of question by game map id if question does not exist

Request sample with curl

```
$ curl 'http://localhost:8080/gameMaps/4/questions/0' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /gameMaps/4/questions/0 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/gameMaps/4/questions/0' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 404 Not Found
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

HTTP

Request sample

Response sample

Progress

Allow create progress if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3' -i -X POST \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -H 'Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "user" : null,
    "gameMap" : null,
    "position" : {
      "x" : 1,
      "y" : 1
    },
    "timeTaken" : 0.0,
    "questionProgressSet" : [ ],
    "complete" : false
  }'
```

BASH

Request sample with http

```
POST /progress/users/student2@test.com/gameMaps/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42
Content-Length: 274
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 0.0,
  "questionProgressSet" : [ ],
  "complete" : false
}
```

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 0.0,
  "questionProgressSet" : [ ],
  "complete" : false
}' | http POST 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3' \
  'Content-Type:application/json;charset=UTF-8' \
  'Authorization:Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

HTTP response

```

HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 444

```

```

{
  "id" : 1,
  "createdBy" : "student2@test.com",
  "createdAt" : "2020-04-21T08:54:03.673+0000",
  "lastModifiedBy" : "student2@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:03.673+0000",
  "user" : {
    "email" : "student2@test.com",
    "role" : "ROLE_STUDENT",
    "name" : "student2"
  },
  "gameMap" : 3,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 0.0,
  "questionProgressSet" : [ 1 ],
  "complete" : false
}

```

Request sample

```

{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 0.0,
  "questionProgressSet" : [ ],
  "complete" : false
}

```

Response sample

```

{
  "id" : 1,
  "createdBy" : "student2@test.com",
  "createdAt" : "2020-04-21T08:54:03.673+0000",
  "lastModifiedBy" : "student2@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:03.673+0000",
  "user" : {
    "email" : "student2@test.com",
    "role" : "ROLE_STUDENT",
    "name" : "student2"
  },
  "gameMap" : 3,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 0.0,
  "questionProgressSet" : [ 1 ],
  "complete" : false
}

```

Allow fetch progress by game map id if authorized

Request sample with curl

```

$ curl 'http://localhost:8080/progress/gameMaps/3' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'

```

Request sample with http

```
GET /progress/gameMaps/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/progress/gameMaps/3' \
'Content-Type:application/json;charset=UTF-8' \
'Authorization:Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 957

{
  "content" : [ {
    "id" : 1,
    "createdBy" : "student2@test.com",
    "createdDate" : "2020-04-21T08:54:03.673+0000",
    "lastModifiedBy" : "student2@test.com",
    "lastModifiedDate" : "2020-04-21T08:54:03.673+0000",
    "user" : {
      "email" : "student2@test.com",
      "role" : "ROLE_STUDENT",
      "name" : "student2"
    },
    "gameMap" : 3,
    "position" : {
      "x" : 1,
      "y" : 1
    },
    "timeTaken" : 0.0,
    "questionProgressSet" : [ 1 ],
    "complete" : false
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

HTTP

Request sample

Response sample

```
{
  "content" : [ {
    "id" : 1,
    "createdBy" : "student2@test.com",
    "createdDate" : "2020-04-21T08:54:03.673+0000",
    "lastModifiedBy" : "student2@test.com",
    "lastModifiedDate" : "2020-04-21T08:54:03.673+0000",
    "user" : {
      "email" : "student2@test.com",
      "role" : "ROLE_STUDENT",
      "name" : "student2"
    },
    "gameMap" : 3,
    "position" : {
      "x" : 1,
      "y" : 1
    },
    "timeTaken" : 0.0,
    "questionProgressSet" : [ 1 ],
    "complete" : false
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

Allow fetch progress by user email and game map id if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

Request sample with http

```
GET /progress/users/student2@test.com/gameMaps/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3' \
'Content-Type:application/json;charset=UTF-8' \
'Authorization:Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

HTTP response

HTTP

```

HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 444

```

```

{
  "id" : 1,
  "createdBy" : "student2@test.com",
  "createdAt" : "2020-04-21T08:54:03.673+0000",
  "lastModifiedBy" : "student2@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:03.673+0000",
  "user" : {
    "email" : "student2@test.com",
    "role" : "ROLE_STUDENT",
    "name" : "student2"
  },
  "gameMap" : 3,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 0.0,
  "questionProgressSet" : [ 1 ],
  "complete" : false
}

```

Request sample

Response sample

```

{
  "id" : 1,
  "createdBy" : "student2@test.com",
  "createdAt" : "2020-04-21T08:54:03.673+0000",
  "lastModifiedBy" : "student2@test.com",
  "lastModifiedDate" : "2020-04-21T08:54:03.673+0000",
  "user" : {
    "email" : "student2@test.com",
    "role" : "ROLE_STUDENT",
    "name" : "student2"
  },
  "gameMap" : 3,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 0.0,
  "questionProgressSet" : [ 1 ],
  "complete" : false
}

```

Fetch progress by user email if authorized

Request sample with curl

```

$ curl 'http://localhost:8080/progress/users/student2@test.com' -i -X GET \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -H 'Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'

```

BASH

Request sample with http

```

GET /progress/users/student2@test.com HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42
Host: localhost:8080

```

HTTP

Request sample with httpie

```

$ http GET 'http://localhost:8080/progress/users/student2@test.com' \
  'Content-Type:application/json;charset=UTF-8' \
  'Authorization:Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'

```

BASH

HTTP response

```

HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Disposition: inline;filename=f.txt
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 957

```

```

{
  "content" : [ {
    "id" : 1,
    "createdBy" : "student2@test.com",
    "createdDate" : "2020-04-21T08:54:03.673+0000",
    "lastModifiedBy" : "student2@test.com",
    "lastModifiedDate" : "2020-04-21T08:54:03.673+0000",
    "user" : {
      "email" : "student2@test.com",
      "role" : "ROLE_STUDENT",
      "name" : "student2"
    },
    "gameMap" : 3,
    "position" : {
      "x" : 1,
      "y" : 1
    },
    "timeTaken" : 0.0,
    "questionProgressSet" : [ 1 ],
    "complete" : false
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}

```

Request sample

Response sample

```
{
  "content" : [ {
    "id" : 1,
    "createdBy" : "student2@test.com",
    "createdDate" : "2020-04-21T08:54:03.673+0000",
    "lastModifiedBy" : "student2@test.com",
    "lastModifiedDate" : "2020-04-21T08:54:03.673+0000",
    "user" : {
      "email" : "student2@test.com",
      "role" : "ROLE_STUDENT",
      "name" : "student2"
    },
    "gameMap" : 3,
    "position" : {
      "x" : 1,
      "y" : 1
    },
    "timeTaken" : 0.0,
    "questionProgressSet" : [ 1 ],
    "complete" : false
  } ],
  "pageable" : {
    "sort" : {
      "sorted" : false,
      "unsorted" : true,
      "empty" : true
    },
    "pageNumber" : 0,
    "pageSize" : 20,
    "offset" : 0,
    "paged" : true,
    "unpaged" : false
  },
  "totalPages" : 1,
  "totalElements" : 1,
  "last" : true,
  "sort" : {
    "sorted" : false,
    "unsorted" : true,
    "empty" : true
  },
  "first" : true,
  "number" : 0,
  "numberOfElements" : 1,
  "size" : 20,
  "empty" : false
}
```

Allow request for attempt count if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/gameMaps/3/report' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /progress/gameMaps/3/report HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/progress/gameMaps/3/report' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 3
```

HTTP

[]

Request sample

Response sample

```
[ ]
```

Allow request for leaderboard if user is authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/gameMaps/3/leaderboard' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

Request sample with http

```
GET /progress/gameMaps/3/leaderboard HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/progress/gameMaps/3/leaderboard' \
'Content-Type:application/json;charset=UTF-8' \
'Authorization:Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 3
```

HTTP

```
[ ]
```

Request sample

Response sample

```
[ ]
```

Accept submitted answer if token and user match

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3/questions/2/submit' -i -X POST \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42' \
-d '3'
```

BASH

Request sample with http

```
POST /progress/users/student2@test.com/gameMaps/3/questions/2/submit HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42
Content-Length: 1
Host: localhost:8080
```

HTTP

```
3
```

Request sample with httpie

```
$ echo '3' | http POST 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3/questions/2/submit' \
'Content-Type:application/json;charset=UTF-8' \
'Authorization:Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 5

false
```

HTTP

Request sample

3

Response sample

false

Allow update of progress if authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3' -i -X PUT \
  -H 'Content-Type: application/json;charset=UTF-8' \
  -H 'Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42' \
  -d '{
    "id" : 0,
    "createdBy" : null,
    "createdDate" : null,
    "lastModifiedBy" : null,
    "lastModifiedDate" : null,
    "user" : null,
    "gameMap" : null,
    "position" : {
      "x" : 1,
      "y" : 1
    },
    "timeTaken" : 10.0,
    "questionProgressSet" : [ ],
    "complete" : false
  }'
```

BASH

Request sample with http

```
PUT /progress/users/student2@test.com/gameMaps/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42
Content-Length: 275
Host: localhost:8080

{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 10.0,
  "questionProgressSet" : [ ],
  "complete" : false
}
```

HTTP

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 10.0,
  "questionProgressSet" : [ ],
  "complete" : false
}' | http PUT 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3' \
  'Content-Type:application/json;charset=UTF-8' \
  'Authorization:Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 361

{
  "id" : 1,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : {
    "email" : "student2@test.com",
    "role" : "ROLE_STUDENT",
    "name" : "student2"
  },
  "gameMap" : 3,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 10.0,
  "questionProgressSet" : [ ],
  "complete" : false
}
```

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 10.0,
  "questionProgressSet" : [ ],
  "complete" : false
}
```

Response sample

```
{
  "id" : 1,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : {
    "email" : "student2@test.com",
    "role" : "ROLE_STUDENT",
    "name" : "student2"
  },
  "gameMap" : 3,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 10.0,
  "questionProgressSet" : [ ],
  "complete" : false
}
```

Allow deletion of progress if authorized and self

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

Request sample with http

```
DELETE /progress/users/student2@test.com/gameMaps/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3' \
'Content-Type:application/json;charset=UTF-8' \
'Authorization:Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
Content-Length: 4

true
```

HTTP

Request sample

Response sample

```
true
```

Reject create progress if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/user1@test.com/gameMaps/3' -i -X POST \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 0.0,
  "questionProgressSet" : [ ],
  "complete" : false
}'
```

BASH

Request sample with http

```
POST /progress/users/user1@test.com/gameMaps/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 274
Host: localhost:8080
```

HTTP

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 0.0,
  "questionProgressSet" : [ ],
  "complete" : false
}
```

Request sample with httpie

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 0.0,
  "questionProgressSet" : [ ],
  "complete" : false
}' | http POST 'http://localhost:8080/progress/users/user1@test.com/gameMaps/3' \
  'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 0.0,
  "questionProgressSet" : [ ],
  "complete" : false
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject fetch progress by game map id if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/gameMaps/3' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /progress/gameMaps/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/progress/gameMaps/3' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject fetch progress by user email and game map id if not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/user1@test.com/gameMaps/3' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /progress/users/user1@test.com/gameMaps/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/progress/users/user1@test.com/gameMaps/3' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error": "access_denied",
  "error_description": "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error": "access_denied",
  "error_description": "Access is denied"
}
```

Reject fetch progress by user email and game map if game map does not exist

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/student2@test.com/gameMaps/2' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

Request sample with http

```
GET /progress/users/student2@test.com/gameMaps/2 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/progress/users/student2@test.com/gameMaps/2' \
'Content-Type:application/json;charset=UTF-8' \
'Authorization:Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

HTTP response

```
HTTP/1.1 404 Not Found
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

HTTP

Request sample

Response sample

Reject fetch progress by user email and game map if user email does not exist

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/student2@test.com/gameMaps/2' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

Request sample with http

```
GET /progress/users/student2@test.com/gameMaps/2 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/progress/users/student2@test.com/gameMaps/2' \
'Content-Type:application/json;charset=UTF-8' \
'Authorization:Bearer b41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

HTTP response

```
HTTP/1.1 404 Not Found
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

HTTP

Request sample

Response sample

Reject fetch progress by user email if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/user1@test.com' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /progress/users/user1@test.com HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/progress/users/user1@test.com' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error": "access_denied",
  "error_description": "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject submitted answer if token and user do not match

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3/questions/2/submit' -i -X POST \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Authorization: Bearer 80350cf6-893e-48c9-999e-c9949ccd8a35' \
-d '3'
```

BASH

Request sample with http

```
POST /progress/users/student2@test.com/gameMaps/3/questions/2/submit HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer 80350cf6-893e-48c9-999e-c9949ccd8a35
Content-Length: 1
Host: localhost:8080
```

HTTP

3

Request sample with httpie

```
$ echo '3' | http POST 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3/questions/2/submit' \
'Content-Type:application/json;charset=UTF-8' \
'Authorization:Bearer 80350cf6-893e-48c9-999e-c9949ccd8a35'
```

BASH

HTTP response

```
HTTP/1.1 401 Unauthorized
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

HTTP

Request sample

3

Response sample

Reject request for leaderboard if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/gameMaps/3/leaderboard' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /progress/gameMaps/3/leaderboard HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/progress/gameMaps/3/leaderboard' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject submitted answer by user if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/user1@test.com/gameMaps/3/questions/2/submit' -i -X POST \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '3'
```

BASH

Request sample with http

```
POST /progress/users/user1@test.com/gameMaps/3/questions/2/submit HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 1
Host: localhost:8080

3
```

HTTP

Request sample with httpie

```
$ echo '3' | http POST 'http://localhost:8080/progress/users/user1@test.com/gameMaps/3/questions/2/submit' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

```
3
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject request for attempt count if user email does not exist

Request sample with curl

```
$ curl 'http://localhost:8080/progress/gameMaps/3/report' -i -X GET \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
GET /progress/gameMaps/3/report HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http GET 'http://localhost:8080/progress/gameMaps/3/report' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject update progress if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/user1@test.com/gameMaps/3' -i -X PUT \
-H 'Content-Type: application/json;charset=UTF-8' \
-d '{
  "id" : 0,
  "createdBy" : null,
  "createdAt" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 10.0,
  "questionProgressSet" : [ ],
  "complete" : false
}'
```

BASH

Request sample with http

PUT /progress/users/user1@test.com/gameMaps/3 HTTP/1.1

HTTP

Content-Type: application/json;charset=UTF-8

Content-Length: 275

Host: localhost:8080

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 10.0,
  "questionProgressSet" : [ ],
  "complete" : false
}
```

Request sample with httpie

BASH

```
$ echo '{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 10.0,
  "questionProgressSet" : [ ],
  "complete" : false
}' | http PUT 'http://localhost:8080/progress/users/user1@test.com/gameMaps/3' \
  'Content-Type:application/json;charset=UTF-8'
```

HTTP response

HTTP

HTTP/1.1 403 Forbidden

Access-Control-Allow-Origin: *

Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT

Access-Control-Max-Age: 3600

Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization

Cache-Control: no-store

Pragma: no-cache

Content-Type: application/json

X-Content-Type-Options: nosniff

X-XSS-Protection: 1; mode=block

X-Frame-Options: DENY

Content-Length: 75

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Request sample

```
{
  "id" : 0,
  "createdBy" : null,
  "createdDate" : null,
  "lastModifiedBy" : null,
  "lastModifiedDate" : null,
  "user" : null,
  "gameMap" : null,
  "position" : {
    "x" : 1,
    "y" : 1
  },
  "timeTaken" : 10.0,
  "questionProgressSet" : [ ],
  "complete" : false
}
```

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject delete progress if user is not authorized

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/user1@test.com/gameMaps/3' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8'
```

BASH

Request sample with http

```
DELETE /progress/users/user1@test.com/gameMaps/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/progress/users/user1@test.com/gameMaps/3' \
'Content-Type:application/json;charset=UTF-8'
```

BASH

HTTP response

```
HTTP/1.1 403 Forbidden
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 75

{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

HTTP

Request sample

Response sample

```
{
  "error" : "access_denied",
  "error_description" : "Access is denied"
}
```

Reject delete progress if user is not self

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/student3@test.com/gameMaps/3' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Authorizaton: Bearerb41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

Request sample with http

```
DELETE /progress/users/student3@test.com/gameMaps/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorizaton: Bearerb41f5ce3-95dd-4eda-a300-4ae53d867b42
Host: localhost:8080
```

HTTP

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/progress/users/student3@test.com/gameMaps/3' \
'Content-Type:application/json;charset=UTF-8' \
'Authorizaton:Bearerb41f5ce3-95dd-4eda-a300-4ae53d867b42'
```

BASH

HTTP response

```
HTTP/1.1 401 Unauthorized
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
Cache-Control: no-store
Pragma: no-cache
WWW-Authenticate: Bearer realm="resource_id", error="unauthorized", error_description="An Authentication object was not fou
Content-Type: application/json
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Length: 119

{
  "error" : "unauthorized",
  "error_description" : "An Authentication object was not found in the SecurityContext"
}
```

Request sample

Response sample

```
{
  "error" : "unauthorized",
  "error_description" : "An Authentication object was not found in the SecurityContext"
}
```

Reject delete progress if progress does not exist

Request sample with curl

```
$ curl 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3' -i -X DELETE \
-H 'Content-Type: application/json;charset=UTF-8' \
-H 'Authorization: Bearer 7f6509a6-b40c-4d1e-beac-55dd7885aee4'
```

Request sample with http

```
DELETE /progress/users/student2@test.com/gameMaps/3 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Authorization: Bearer 7f6509a6-b40c-4d1e-beac-55dd7885aee4
Host: localhost:8080
```

Request sample with httpie

```
$ http DELETE 'http://localhost:8080/progress/users/student2@test.com/gameMaps/3' \
'Content-Type:application/json;charset=UTF-8' \
'Authorization:Bearer 7f6509a6-b40c-4d1e-beac-55dd7885aee4'
```

HTTP response

```
HTTP/1.1 404 Not Found
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: POST, GET, DELETE, PATCH, PUT
Access-Control-Max-Age: 3600
Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
X-Frame-Options: DENY
```

Request sample

Response sample