# A7: Web resources documentation- LearnIt (Q&A)

The architecture of the web application to develop is documented indicating the catalogue of resources and the properties of each resource, including: references to the graphical interfaces, and the format of JSON responses.

This page presents a documentation for **Learn It**, including the following operations over data: create, read, update, and delete.

## Overview

An overview of the web application to implement is presented in this section, where the modules are identified and briefly described. The web resources associated with each module are detailed in the individual documentation of each module.

|  |  |
| --- | --- |
| M01: Authentication | Web resources associated with user authentication, includes the  following system features: login/logout, registration and recover password. |
| M02: Static pages | Web resources associated with immutable content pages, such as 404, about, terms, contacts. |
| M03: Users | Web resources associated with users, such as individual profile management: view and edit personal information, manage their followers/following, their settings. Furthermore, this module also includes the notifications management. |
| M04: Main content (questions, answers and comments) | Web resources associated with the categories, includes creating, viewing, editing and deleting questions, answers and comments. |
| M05: Feed and search | Web resources associated with the feed and search. This module includes the main feed and search features. |
| M06: Administration | Web resources associates with member management, specifically: view and search members, ban member accounts, promote members to moderator, manage reports, add new categories and faqs (Admin, moderator, faq). |

## Permissions

This section defines the permissions used in the modules to establish the conditions of access to resources.

|  |  |  |
| --- | --- | --- |
| PUB | Public | Group of users without privileges. |
| MEM | Member | Group of authenticated users that can create and search for content. |
| OWN | Owner | Users that are owners of information (profile, questions, answers, comments) and can update their content. |
| ADM | Administrator | System administrator. |
| MOD | Moderator | Group of members that manage the website. |

## Modules

This section documents each web resource of each module, indicating the URL, HTTP methods, the possible parameters, interfaces with the user (referring to the A3 artefact) — or JSON responses in the event of APIs.

## Module M01: Authentication

These are the endpoints available in the authentication module:

* **R101:** Login Form */login*
* **R102:** Login Action */login*
* **R103:** Logout Action */logout*
* **R104:** Register Form */register*
* **R105:** Register Action */register*
* **R106:** RecoverPassword Form */password/recover*
* **R107:** RecoverPassword Action */password/recover*

**R101: Login Form**

|  |  |
| --- | --- |
| URL | /login |
| Description | Page with a form to login to a user account. |
| Method | GET |
| UI | UI01 |
| SUBMIT | R102 |
| Permissions | PUB |

**R102: Login Action**

|  |  |  |
| --- | --- | --- |
| URL | /login | |
| Description | This web resource logs the user into the system. Redirects to the member´s feed or to admin or moderator page on success and to login form on failure. | |
| Method | POST | |
| Request Body | +username: string or +email: string | Username or Email |
| +password: string | Password |
| Redirects | R502 | Success, if member |
| R601 | Success, if admin |
| R602 | Success, if moderator |
| R101 | Error |
| Permissions | PUB | |

**R103: Logout Action**

|  |  |
| --- | --- |
| URL | /logout |
| Description | This web resource logs out the authenticated user, the moderator or the administrator of the system. Redirects to the login form. |
| Method | POST |
| Redirects | UI04 |
| Permissions | MEM or ADM or MOD |

**R104: Register Form**

|  |  |
| --- | --- |
| URL | /register |
| Description | Page with a form to register a new user account. |
| Method | GET |
| UI | UI02 |
| SUBMIT | R105 |
| Permissions | PUB |

**R105: Register Action**

|  |  |  |
| --- | --- | --- |
| URL | /register | |
| Description | This web resource inserts the user into the system. Redirects to the member´s feed on success and to the sign-up form on failure. | |
| Method | POST | |
| Request Body | +username: string | Username |
| +email: string | Email |
| +password: string | Password |
| +birthdate: date | Birthdate |
| Redirects | R502 | Success |
| R104 | Error |
| Permissions | PUB | |

**R106: RecoverPassword Form**

|  |  |
| --- | --- |
| URL | /password/recover |
| Description | Page with a form to request a token to reset the password. |
| Method | GET |
| UI | UI03 |
| SUBMIT | R107 |
| Permissions | USR, MOD, ADM |

**R107: RecoverPassword Action**

|  |  |  |
| --- | --- | --- |
| URL | /password/recover | |
| Description | Web resource that sends a reset password link to the specified email. | |
| Method | POST | |
| Request Body | +email: string | Email |
| Redirects | R102 | Success |
| R106 | Error |
| Permissions | USR, MOD, ADM | |

## Module M02: Static pages

These are the endpoints available in the static pages module:

* **R201:** 404 Page */404*
* **R202:** Contact Page Form */contacts*
* **R203:** Contact Page Action */contacts*
* **R204:** About Page */about*
* **R205:** Terms Page */terms*
* **R206:** FAQ Page */faq*
* **R207:** Home Page */*

**R201: 404 Page**

|  |  |
| --- | --- |
| URL | /404 |
| Description | Get the 404 page |
| Method | GET |
| UI | UI22 |
| Permissions | PUB |

**R202: Contacts Page Form**

|  |  |
| --- | --- |
| URL | /contacts |
| Description | Get the contacts page. |
| Method | GET |
| UI | UI08 |
| SUBMIT | R203 |
| Permissions | PUB |

**R203: Contacts Page Action**

|  |  |  |
| --- | --- | --- |
| URL | /contacts | |
| Description | This web resource sends a message to the site master. | |
| Method | POST | |
| Request Body | +username: string | Username |
| +email: string | Email |
| +subject: string | Subject |
| +message: string | Message |
| Redirects | R204 | Success |
| R502 | Success, if member |
| R202 | Error |
| Permissions | PUB | |

**R204: About Page**

|  |  |
| --- | --- |
| URL | /about |
| Description | Get about page. |
| Method | GET |
| UI | UI05 |
| Permissions | PUB |

**R205: Terms Page**

|  |  |
| --- | --- |
| URL | /terms |
| Description | Get the terms of use page. |
| Method | GET |
| UI | UI06 |
| Permissions | PUB |

**R206: FAQ Page**

|  |  |
| --- | --- |
| URL | /faq |
| Description | Get the faqs page. |
| Method | GET |
| UI | UI07 |
| Permissions | PUB |

**R207: Home Page**

|  |  |
| --- | --- |
| URL | / |
| Description | Get the Home page. |
| Method | GET |
| UI | UI04 |
| Permissions | PUB |

## Module M03: Users

These are the endpoints available in the user’s module:

* **R301:** View Profile */profile/{username}*
* **R302:** Edit Profile Form */profile/edit*
* **R303:** Get Edit Profile Form API *api/members/{username}/edit-profile*
* **R304:** Edit Profile Action */profile/{username}*
* **R305:** View Followers */profile/{username}/followers*
* **R306:** View Following */ profile/{username}/following*
* **R307:** Follow/ unfollow user API */api/member/{username}/toggle-follow*
* **R308:** View Settings */{username}/settings*
* **R309:** Get Settings API */api/members/{username}/settings*
* **R310:** Edit E-mail API */api/members/{username}/settings/email*
* **R311:** Edit Password API */api/members/{username}/settings/password*
* **R312:** Edit Google Account API */api/members/{username}/settings/google-account*
* **R313:** Edit Facebook Account API */api/members/{username}/settings/facebook-account*
* **R314:** Delete account */api/members/{username}/settings/delete-account*
* **R315:** Get Notifications API */api/members/{username}/notifications*
* **R316:** Mark a Notification as Read API */api/members/{username}/notifications/{notification\_id}*

**R301: View Profile**

|  |  |  |
| --- | --- | --- |
| URL | /profile/{username} | |
| Description | Page with a member’s profile info. | |
| Method | GET | |
| Parameters | + username: string | Member´s username |
| UI | UI09 | |
| UI observations | UI changes according to permissions. If member has OWN permissions, editing options are shown. If member has MEM permissions, follow option should be displayed on all profiles that are not one’s own. | |
| Permissions | PUB (general access) or OWN (for editing) | |

**R302: Edit Profile Form**

|  |  |
| --- | --- |
| URL | /profile/edit |
| Description | Page with a form to edit one’s profile info. |
| Method | GET |
| UI | UI10 |
| Ajax calls | R203 |
| SUBMIT | R204 |
| Permissions | OWN |

**R303: Get Edit Profile Form API**

|  |  |  |
| --- | --- | --- |
| URL | api/members/{username}/edit-profile | |
| Description | This resource gets member’s information to use as default values in the  edit form. | |
| Method | GET | |
| Parameters | + username: string | Member´s username |
| Response Body | JSON303 | |
| Permissions | OWN | |

**R304: Edit Profile Action**

|  |  |  |
| --- | --- | --- |
| URL | /profile/{username} | |
| Description | This web resource changes user profile info based on the input received. Redirects to the member profile on success and edit profile page on failure. | |
| Method | PUT | |
| Parameters | + username: string | Member´s username |
| Request Body | + username: string | username |
| + email: string | email |
| + password: string | password |
| ? bio | Bio description |
| ? picture | Profile photo |
| Redirects | R301 | Success |
| R303 | Error |
| Permissions | OWN | |

**R305: View Followers**

|  |  |  |
| --- | --- | --- |
| URL | /profile/{username}/followers | |
| Description | Page with the member’s followers. | |
| Method | GET | |
| Parameters | + username: string | Member´s username |
| UI | UI11 | |
| Permissions | PUB | |

**R306: View Following**

|  |  |  |
| --- | --- | --- |
| URL | profile/{username}/following | |
| Description | Page with the members that another member follows. | |
| Method | GET | |
| Parameters | + username: string | Member’s username |
| UI | UI11 | |
| Permissions | PUB | |

**R307: Follow/ unfollow user API**

|  |  |  |
| --- | --- | --- |
| URL | /api/member/{username}/toggle-follow | |
| Description | This web resource toggles following of another member. | |
| Method | PUT | |
| Request body | + username: string | Target member’s username |
| Returns | 200 Ok | The following status was updated |
| 400 Bad request | Error. Error message is specified via http header. |
| 404 Not found | Error. No member with the specified username exists. |
| Permissions | OWN | |

**R308: View Settings**

|  |  |
| --- | --- |
| URL | /{username}/settings |
| Description | Page with the member’s settings. |
| Method | GET |
| UI | UI23 |
| Ajax Calls | R309, R310, R311, R312, R313 |
| Permissions | OWN |

**R309: Get Settings API**

|  |  |  |
| --- | --- | --- |
| URL | /api/members/{username}/settings | |
| Description | Obtains a member’s current settings. | |
| Method | GET | |
| Parameters | + username: string | Member’s username. |
| Response body | JSON309 | |
| Permissions | OWN | |

**R310: Edit e-mail API**

|  |  |  |
| --- | --- | --- |
| URL | /api/members/{username}/settings/email | |
| Description | This resource updates the member’s e-mail account. | |
| Method | PUT | |
| Parameters | + username: string | Member’s username. |
| Request Body | + email: string | New email |
| Returns | 200 Ok | The email was updated. |
| 400 Bad request | Error. Error message is specified via http header. |
| 404 Not found | Error. No member with the specified username exists. |
| Response body | JSON310 | |
| Permissions | OWN | |

**R311: Edit Password API**

|  |  |  |
| --- | --- | --- |
| URL | /api/members/{username}/settings/password | |
| Description | This resource updates the member’s password. | |
| Method | PUT | |
| Parameters | + username: string | Member’s username. |
| Request Body | + password: string | New password |
| Returns | 200 Ok | The password was updated. |
| 400 Bad request | Error. Error message is specified via http header. |
| 404 Not found | Error. No member with the specified username exists. |
| Permissions | OWN | |

**R312: Edit Google Account API**

|  |  |  |
| --- | --- | --- |
| URL | /api/members/{username}/settings/google-account | |
| Description | This resource updates the member’s connected google account. | |
| Method | PUT | |
| Parameters | + username: string | Member’s username. |
| Request Body | + account: string | New google account |
| Returns | 200 Ok | The account was updated. |
| 400 Bad request | Error. Error message is specified via http header. |
| 404 Not found | Error. No member with the specified username exists. |
| Permissions | OWN | |

**R313: Edit Facebook Account API**

|  |  |  |
| --- | --- | --- |
| URL | /api/members/{username}/settings/facebook-account | |
| Description | This resource updates the member’s connected facebook account. | |
| Method | PUT | |
| Parameters | + username: string | Member’s username. |
| Request Body | + account: string | New facebook account. |
| Returns | 200 Ok | The account was successfully updated. |
| 400 Bad request | Error. Error message is specified via http header. |
| 404 Not found | Error. No member with the specified username exists. |
| Permissions | OWN | |

**R314: Delete Account**

|  |  |  |
| --- | --- | --- |
| URL | /api/members/{username}/settings/delete-account | |
| Description | This resource deletes the member’s account. | |
| Method | DELETE | |
| Parameters | + username: string | Member’s username. |
|  | 200 Ok | The account was successfully deleted. |
| 400 Bad request | Error. Error message is specified via http header. |
| 404 Not found | Error. No member with the specified username exists. |
| Permissions | OWN | |

**R315: Get Notifications API**

|  |  |  |
| --- | --- | --- |
| URL | /api/members/{username}/notifications | |
| Description | This resource gets the member’s notifications. | |
| Method | GET | |
| Parameters | + username: string | Member’s username |
| Response body | JSON315 | |
| Permissions | OWN | |

**R316: Mark a Notification as Read API**

|  |  |  |
| --- | --- | --- |
| URL | /api/members/{username}/notifications/{id\_notification} | |
| Description | This resource marks a notification as read. | |
| Method | PUT | |
| Parameters | + username: string | Member’s username. |
| + id\_notification: integer | Notifications primary key |
| Returns | 200 Ok | The account was successfully deleted. |
| 400 Bad request | Error. Error message is specified via http header. |
| 404 Not found | Error. No member with the specified username exists. |
| Permissions | OWN | |

## Module M04: Main content

These are the endpoints available in the main content module:

Topic:

* **R401:** View Topic*/topic/{name}*

Questions:

* **R402:** View Question */questions/{id\_question}*
* **R403:** Add Question From */questions/add*
* **R404:** Add Question Action */questions/add*
* **R405:** Edit Question API */api/questions/{id\_question}*
* **R406:** Delete Question API */api/questions/{id\_question}*
* **R407:** Rate Question API */api/questions/{id\_question}/rate*
* **R408:** Report Action API */api/questions/{id\_question}/report*

Answers:

* **R409:** Get Answer */questions{id\_question}/answers/{id\_answer}*
* **R410:** Add Answer API */api/questions/{id\_question}/answers*
* **R411:** Edit Answer API */api/questions/{id\_question}/answers/{id\_answer}*
* **R412:** Delete Answer API */api/questions/{id\_question}/answers/{id\_answer}*
* **R413:** Rate Answer API */api /questions/{id\_question}/answers/{id\_answer}/rate*
* **R414:** Report API */api/questions/{id\_question}/answers/{id\_answer}/report*
* **R415:** Assign/unassign as best answer API */api/{id\_question}/answers/{id\_answer}/best-answer*

Comment:

* **R416:** Get Comment API */api/questions/{id\_question}/comments/{id\_comment}*
* **R417:** Add Comment API /api/questions/{id\_question}/*comments*
* **R418:** Edit Comment API */api/questions/{id\_question}/comments/{id\_comment}/edit*
* **R419:** Delete Comment API *api/questions/{id\_question}/comments/{id\_comment}*
* **R420:** Rate Comment API *api/questions/{id\_question}/comments/{id\_comment}****/****rate*
* **R421:** Report Comment API *api/questions/{id\_question}/comments/{id\_comment}****/****rate*

**R401: View Topic**

|  |  |  |
| --- | --- | --- |
| URL | /topics /{name} | |
| Description | Displays the topic’s page. | |
| Method | GET | |
| Parameters | + name: String | Topic name |
| UI | UI19 | |
| Permissions | PUB | |

**R402: View Question**

|  |  |  |
| --- | --- | --- |
| URL | /questions/{id\_question} | |
| Description | Displays the question’s page. | |
| Method | GET | |
| Parameters | + id: integer | Question primary key |
| Ajax Calls | R307, R403, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421 | |
| UI | UI21 | |
| Ui observations | UI changes according to permissions. If viewer has PUB permissions, no content options should be displayed. If MEM, report, rating and comment/ answer options. If OWN, editing options only for the member’s content. | |
| Permissions | PUB (general access) or MEM (rating, reporting content, comment) or OWN (for editing one´s content) | |

**R403: Add Question Form**

|  |  |  |
| --- | --- | --- |
| URL | /questions/add | |
| Description | Page with a form to add a new question. | |
| Method | GET | |
| Parameters | + category: string | Question’s category. |
| + text: string | Question |
| ? description: string | Question’s description. |
| ? photo: string | Question’s photo or file. |
| UI | UI18 | |
| SUBMIT | R303 | |
| Permissions | MEM | |

**R404: Add Question Action**

|  |  |  |
| --- | --- | --- |
| URL | /questions/add | |
| Description | This web resource adds a new question. | |
| Method | POST | |
| Request Body | + id\_author: integer | Member primary key |
| + category: string | Question’s category. |
| + text: string | Question |
| ? description: string | Question’s description. |
| ? photo: string | Question’s photo or file. |
| Redirects | R402 | Success |
| R403 | Error |
| Permissions | MEM | |

**R405: Edit Question API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/questions/{id\_question} | | |
| Description | This web resource updates a question. | | |
| Method | PUT | | |
| Parameter | + id\_question: integer | Question primary key | |
| Request Body | + category: string | | Question’s category. |
| + text: string | | Question |
| ? description: string | | Question´s description. |
| ? photo: string | | Question’s photo or file. |
| Response body | JSON405 | | The question’s information when successful, an error message when unsuccessful. |
| Permissions | OWN | | |

**R406: Delete Question API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/questions/{id\_question} | | |
| Description | This web resource deletes a question. | | |
| Method | DELETE | | |
| Parameters | + id\_question: integer | | Question primary key |
| Returns | 200 Ok | The question was successfully  deleted. | |
| 400 Bad request | Error. Error message is specified  via a HTTP header. | |
| 404 Not found | Error. No question with the  specified primary key exists. | |
| Redirects | R502 | Success | |
| Permissions | OWN or MOD | | |

**R407: Rate Question API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/questions/{id\_question}/rate | | |
| Description | This web resource rates a question. | | |
| Method | PUT | | |
| Parameters | + id\_question: integer | | Question primary key |
| + id\_author: integer | | User who rated the question. |
| Returns | 200 Ok | The question was successfully  rated. | |
| 400 Bad request | Error. Error message is specified  via a HTTP header. | |
| 404 Not found | Error. No question with the  specified primary key exists. | |
| Permissions | MEM | | |

**R408: Report Question API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/questions/{id\_question}/report | | |
| Description | This web resource reports a question. | | |
| Method | POST | | |
| Parameters | + id\_question: integer | | Question primary key |
| + reason: string | | Reason |
| Returns | 200 Ok | The question was successfully  reported. | |
| 400 Bad request | Error. Error message is specified  via a HTTP header. | |
| 404 Not found | Error. No question with the  specified primary key exists. | |
| Permissions | MEM | | |

**R409: Get Answer**

|  |  |  |
| --- | --- | --- |
| URL | /questions{id\_question}/answers/{id\_answer} | |
| Description | This web resource gets an answer. | |
| Method | GET | |
| Parameters | + id\_question: integer | Question primary key |
| + id\_answer: integer | Answer primary key |
| UI | UI21 | |
| Response Body | JSON409 | The answer’s information when  successful, an error message when  unsuccessful |
| Permissions | MEM | |

**R410: Add Answer API**

|  |  |  |
| --- | --- | --- |
| URL | /api/questions/{id\_question}/answers | |
| Description | Page with a form to add a new answer. | |
| Method | POST | |
| Parameters | + id\_question: integer | Question primary key |
| Request Body | + id\_author: integer | Member primary key |
| + content: string | Content |
| Response Body | JSON410 | The answer’s information when  successful, an error message when  unsuccessful |
| Permissions | MEM |  |

**R411: Edit Answer API**

|  |  |  |
| --- | --- | --- |
| URL | /api/questions/{id\_question}/answers/{id\_answer} | |
| Description | This web resource updates an answer. | |
| Method | PUT | |
| Parameter | + id\_question: integer | Question primary key |
| Request Body | + id\_author: integer | Member primary key |
| + content: string | Content |
| Response body | JSON411 | The answer’s information when successful, an error message when unsuccessful. |
| Permissions | OWN | |

**R412: Delete Answer API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/questions/{id\_question}/answers/{id\_answer} | | |
| Description | This web resource deletes an answer. | | |
| Method | DELETE | | |
| Parameters | + id\_question: integer | | Question primary key |
| + id\_answer: integer | | Answer primary key |
| Returns | 200 Ok | The answer was successfully  deleted. | |
| 400 Bad request | Error. Error message is specified  via a HTTP header. | |
| 404 Not found | Error. No question with the  specified primary key exists. | |
| Permissions | OWN or MOD |  | |

**R413: Rate Answer API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/questions/{id\_question}/answers/{id\_answer}/rate | | |
| Description | This web resource rates an answer. | | |
| Method | PUT | | |
| Parameters | + id\_question: integer | | Question primary key |
| + id\_answer: integer | | Answer’s primary key |
| + id\_author: integer | | User who rated the question. |
| Returns | 200 Ok | The answer was successfully  rated. | |
| 400 Bad request | Error. Error message is specified  via a HTTP header. | |
| 404 Not found | Error. No answer with the  specified primary key exists. | |
| Permissions | MEM | | |

**R414: Report Answer API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/questions/{id\_question}/answers/{id\_answer}/report | | |
| Description | This web resource reports an answer. | | |
| Method | PUT | | |
| Parameters | + id\_question: integer | | Question primary key |
| + id\_answer: integer | | Answer primary key |
| Request body | + id\_user: integer | | Member primary key |
| + reason: string | | Reason |
| Returns | 200 Ok | The answer was successfully  reported. | |
| 400 Bad request | Error. Error message is specified  via a HTTP header. | |
| 404 Not found | Error. No answer with the  specified primary key exists. | |
| Permissions | MEM | | |

**R415: Assign/unassign as best answer API**

|  |  |  |
| --- | --- | --- |
| URL | /api/{id\_question}/answers/{id\_answer}/best-answer | |
| Description | This web resource assign/ unassign as best answer | |
| Method | PUT | |
| Parameters | + id\_question: integer | Question primary key |
| Returns | 200 Ok | The answer was successfully  Assign/unassign as best answer. |
| 400 Bad request | Error. Error message is specified  via a HTTP header. |
| 404 Not found | Error. No answer with the  specified primary key exists. |
| Permissions | OWN (question’s author) | |

**R416: Get Comment API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/questions/{id\_question}/comments/{id\_comment} | | |
| Description | This web resource gets a comment. | | |
| Method | GET | | |
| Parameters | + id\_comment: integer | | Comment primary key |
| UI | UI21 | | |
| Response body | JSON416 | The comment’s information when  successful, an error message when  unsuccessful | |
| Permissions | MEM | | |

**R417: Add Comment API**

|  |  |  |
| --- | --- | --- |
| URL | /api/questions/{id\_question}/ comments | |
| Description | This web resource adds a new comment. | |
| Method | POST | |
| Parameters | + id\_question: integer | Question primary key |
| Request Body | + id\_author: integer | Member primary key |
| + id\_answer: integer | Answer primary key |
| + content: string | Content |
| Response Body | JSON417 | The comment’s information when  successful, an error message when  unsuccessful |
| Permissions | MEM |  |

**R418: Edit Comment API**

|  |  |  |
| --- | --- | --- |
| URL | /api/questions/{id\_question}/comments/{id\_comment}/edit | |
| Description | This web resource updates a comment. | |
| Method | PUT | |
| Parameter | + id\_comment: integer | Comment primary key |
| Request Body | + id\_author: integer | Member primary key |
| + content: string | Content |
| Response body | JSON418 | The comment’s information when successful, an error message when unsuccessful. |
| Permissions | OWN | |

**R419: Delete Comments API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/questions/{id\_question}/ comments/{id\_comment} | | |
| Description | This web resource deletes a comment. | | |
| Method | DELETE | | |
| Parameters | + id\_question: integer | | Question primary key |
| + id\_answer: integer | | Answer primary key |
| + id\_comment: integer | | Comment primary key |
| Returns | 200 Ok | The answer was successfully  deleted. | |
| 400 Bad request | Error. Error message is specified  via a HTTP header. | |
| 404 Not found | Error. No question with the  specified primary key exists. | |
| Permissions | OWN or MOD |  | |

**R420: Rate Comment API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/questions/{id\_question}/ comments/{id\_comment}/rate | | |
| Description | This web resource rates an answer. | | |
| Method | PUT | | |
| Parameters | + id\_question: integer | Question primary key | |
| + id\_answer: integer | Answer’s primary key | |
| + id\_author: integer | User who rated the question. | |
| + id\_comment: integer | Comment’s primary key | |
| Returns | 200 Ok | The comment was successfully  rated. | |
| 400 Bad request | Error. Error message is specified  via a HTTP header. | |
| 404 Not found | Error. No comment with the  specified primary key exists. | |
| Permissions | MEM | |

**R421: Report Comment API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/questions/{id\_question}/comments/{id\_comment}/report | | |
| Description | This web resource reports a comment. | | |
| Method | PUT | | |
| Parameters | + id\_question: integer | | Question primary key |
| + id\_answer: integer | | Answer primary key |
| + id\_comment: integer | | Comment primary key |
| Request body | + id\_user: integer | | Member primary key |
| + reason: string | | Reason |
| Returns | 200 Ok | The comment was successfully  reported. | |
| 400 Bad request | Error. Error message is specified  via a HTTP header. | |
| 404 Not found | Error. No comment with the  specified primary key exists. | |
| Permissions | MEM | | |

## Module M05: Feed and search

These are the endpoints available in the feed and search module:

* **R501:** View Feed */feed*
* **R502:** Get Feed API */api/members/{username}/feed*
* **R503:** Search API */api/search*

**R501: View Feed**

|  |  |
| --- | --- |
| URL | /feed |
| Description | Page with the member’s personal feed |
| Method | GET |
| UI | UI20 |
| Ajax Calls | R307, R502 |
| Permissions | MEM |

**R502: Get Feed API**

|  |  |  |
| --- | --- | --- |
| URL | /api/members/{username}/feed | |
| Description | This resource gets the member’s personal feed. | |
| Method | GET | |
| Parameters | + username: string | Member’s username |
| Response Body | JSON502 | |
| Permissions | MEM | |

**R503: Search API**

|  |  |  |
| --- | --- | --- |
| URL | /api/search | |
| Description | This web resource searches the system for all content that matches the  search query and filters it accordingly. | |
| Method | GET | |
| Request body | + query: string | Search query |
| + name: string | Category’s content |
| ? filter\_option: integer | Filters option |
| Response body | JSON503 | |
| Permissions | PUB | |

## Module M06: Administration

These are the endpoints available in the administration module:

* **R601:** Admin Page */admin*
* **R602:** Moderator Page */moderator*
* **R603:** Search for Members API */api/members*
* **R604:** Add Category API */api/admin/add-category*
* **R605:** Edit Category API */api/admin/category/{id}*
* **R606:** Ban Member API */api/members/{username}/ban*
* **R607:** Promote Member API /*api/members/{username}/promote*
* **R608:** Dismiss Moderator API */api/members/{username}/dismiss*

**R601: Admin Page**

|  |  |
| --- | --- |
| URL | /admin |
| Description | Get admin page. |
| Method | GET |
| UI | UI12 |
| Ajax Calls | R603 R604, R605, R606, R607, R608 |
| Permissions | ADM |

**R602: Moderator Page**

|  |  |
| --- | --- |
| URL | /moderator |
| Description | Get moderator page. |
| Method | GET |
| UI | UI16 |
| Ajax Calls | R603, R606 |
| Permissions | MOD |

**R603: Search for Members API**

|  |  |  |
| --- | --- | --- |
| URL | /api/members | |
| Description | This web resource searches the members whose data matches the  search query. | |
| Method | GET | |
| Request body | + query: string | Search query |
| Response body | JSON603 | |
| Permissions | ADM or MOD | |

**R604: Add Category API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/admin/add-category | | |
| Description | This web resource adds a new category. | | |
| Method | POST | | |
| Request Body | + name: string | | Category´s name |
| + icon: text | | Category’s icon |
| Response body | JSON604 | The category’s information when  successful, an error message when  unsuccessful | |
| Permissions | ADM | | |

**R605: Edit Category API**

|  |  |  |
| --- | --- | --- |
| URL | /api/admin/category/{id} | |
| Description | This web resource updates a category. | |
| Method | PUT | |
| Parameters | + id\_category: integer | Category primary key |
| Request body | + name: string | Category´s name |
| + icon: text | Category’s icon |
| Response body | JSON606 | The category’s information when  successful, an error message when  unsuccessful |
| Permissions | ADM | |

**R606: Ban Member API**

|  |  |  |  |
| --- | --- | --- | --- |
| URL | /api/members/{username}/ban | | |
| Description | This web resource bans a member. | | |
| Method | POST | | |
| Parameters | + username: string | | Member’s username |
| Returns | 200 Ok | The following status was updated | |
| 400 Bad request | Error. Error message is specified via http header. | |
| 404 Not found | Error. No member with the specified username exists. | |
| Permissions | ADM or MOD | | |

**R607: Promote Member API**

|  |  |  |
| --- | --- | --- |
| URL | /api/members/{username}/promote | |
| Description | This web resource promotes a member to acquire moderator privileges. | |
| Method | PUT | |
| Parameters | + username: string | Member’s username |
| Returns | 200 Ok | The following status was updated |
| 400 Bad request | Error. Error message is specified via http header. |
| 404 Not found | Error. No member with the specified username exists. |
| Permissions | ADM or MOD | |

**R608: Dismiss Moderator API**

|  |  |  |
| --- | --- | --- |
| URL | /api/members/{username}/dismiss | |
| Description | This web resource removes the moderator privileges of a member. | |
| Method | PUT | |
| Parameters | + username: string | Member’s username |
| Returns | 200 Ok | The following status was updated |
| 400 Bad request | Error. Error message is specified via http header. |
| 404 Not found | Error. No member with the specified username exists. |
| Permissions | ADM | |

## JSON/XML types

**JSON303: Edit profile (default values for form)**

{

"data":

{

"id": 1,

"username": "SmilingOwl",

"bio\_description": "Hi! I love this forum!",

"profile\_photo": "sophie.jpg"

},

"message": "Example error message when editing a profile"

}

**JSON309: Get current member settings**

{

"data": {

"id": 1,

"email": "sophie2000@gmail.com",

"google\_account": "myfacebookaccount",

"facebook\_account": "mygoogleaccount"

},

"message": "Example error message when getting a member settings"

}

**JSON310: Edit email**

{

"data": {

"email": "sophie2000@gmail.com"

},

"message": "Example error message when editing an email"

}

**JSON315: Get notifications**

{

"notifications": [

{

"id\_notification": 1,

"type": "comment",

"date": "2017-04-23 01:57:00",

"description": "Peter left a comment on your question: ‘How do a black holes impact time?’",

"view": true

},

{

"id\_notification": 2,

"type": "answer",

"date": "2017-04-23 01:57:00",

"description": "Peter answered your question: ‘How do a black holes impact time?’",

"view": true

},

{

"id\_notification": 1,

"type": "follow",

"date": "2017-05-31 02:35:13",

"description": "Diogo start follow you",

"view": false

}

],

"message": "Example error message when getting notifications"

}**JSON405: Edit question**

{

"data": {

"id\_question": 4,

"title": "What is sen(x) + cos(x)?",

"description": "Please help me!",

"date": "2017-01-01 05:00:00",

"votes":1000,

"photo": "yves.jpg",

"deleted": false,

"id\_category": 5,

"id\_user": 20

},

"message": "Example error message when getting a question"

}

**JSON409, JSON410 and JSON411: Get/ add or edit an answer**

{

"data": {

"id\_answer": 4,

"text": "Maybe 1",

"date": "2018-01-02 12:35:01",

"votes": 5,

"photo": null,

"deleted": "false",

"id\_question": 10,

"user\_post": "Joana"

},

"message": "Example error message when getting/adding/editing an answer"

}

**JSON416, JSON417 and JSON418: Get, add or edit a comment**

{

"data": {

"firstAnswer": 1,

"secondAnswer": 2,

"secondAnswerData":

{

"id\_answer": 4,

"text": "your answer help me a lot!",

"date": "2018-01-02 12:35:01",

"votes": 5,

"photo": null,

"deleted": "false",

"id\_question": 10,

"user\_post": "Anna"

}

},

"message": "Example error message when getting/adding/editing a comment"

}

**JSON502: Get feed**

**{**

"feed": {

"questions": [

{

"id\_question": 10,

"title": "What is sen(x) + cos(x)?",

"description": "Please help me!",

"date": "2017-01-01 05:00:00",

"votes": 1000,

"photo": "yves.jpg",

"deleted": false,

"id\_category": 5,

"id\_user": 20

},

{

"id\_question": 4,

"title": "What is required to start sculpting clay (tools, experience…)?",

"description": "Please help me!",

"date": "2017-06-01 14:00:00",

"votes": 500,

"photo": "yves.jpg",

"deleted": false,

"id\_category": 2,

"id\_user": 5

}

],

"answers": [

{

"id\_answer": 4,

"text": "Maybe 1",

"date": "2018-01-02 12:35:01",

"votes": 5,

"photo": null,

"deleted": "false",

"id\_question": 10,

"user\_post": "Joana"

},

{

"id\_answer": 7,

"text": "When you are sculpting it is important to have a well-organized.",

"date": "2019-01-02 12:35:01",

"votes": 5,

"photo": null,

"deleted": "false",

"id\_question": 4,

"user\_post": "Peter"

}

]

},

"message": "Example error message when getting feed"

}

**JSON503: Search results**

{

"search": {

"questions": [

{

"id\_question": 10,

"title": "What is sen(x) + cos(x)?",

"description": "Please help me!",

"date": "2017-01-01 05:00:00",

"votes": 1000,

"photo": "yves.jpg",

"deleted": false,

"id\_category": 5,

"id\_user": 20

},

{

"id\_question": 4,

"title": "What is required to start sculpting clay (tools, experience…)?",

"description": "Please help me!",

"date": "2017-06-01 14:00:00",

"votes": 500,

"photo": "yves.jpg",

"deleted": false,

"id\_category": 2,

"id\_user": 5

}

],

"answers": [

{

"id\_answer": 4,

"text": "Maybe 1",

"date": "2018-01-02 12:35:01",

"votes": 5,

"photo": null,

"deleted": "false",

"id\_question": 10,

"user\_post": "Joana"

},

{

"id\_answer": 7,

"text": "When you are sculpting it is important to have a well-organized.",

"date": "2019-01-02 12:35:01",

"votes": 5,

"photo": null,

"deleted": "false",

"id\_question": 4,

"user\_post": "Peter"

}

]

},

"message": "Example error message when searching"

}

**JSON603: Search user**

{

"data": {

"id": 0,

"username": "Sophie"

},

"message": "Example error message getting matching user"

}

**JSON604 and JSON606: Get, add or edit a category**

{

"data": {

"id\_category": 2,

"name": "biology",

"icon": "biology-01.svg"

},

"message": "Example error message when getting/adding/editing a category"

}

## REVISION HISTORY

Changes made to the first submission:

1. Changed the URL of the home page to ***/***;
2. Added missing UI interfaces in some resources;

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