**A7 – Web resources documentation**

1. **Overview**

|  |  |
| --- | --- |
| M01: Authentication and individual profile | Web resources associated with authentication and individual profile management. The following system features are included: login, logout, registration, see personal calendar (includes meetings and personal events), view personal information (picture, full name, username, e-mail and statistics) and edit some of it (password, full name, picture and email, as well as it’s privacy). |
| M02: Projects | Web resources associated with projects. The following system features are included: create project, select project, see project information (picture, name, description, creator, statistics), see project team, search for workers of the project team, add worker to project team, see project calendar, see and participate in project forum, see list of projects the user created and is working on and search for projects of both these lists, as well as for any public project. |
| M03: Boards | Web resources associated with boards. The following system features are included: create board, select board, see list of boards of the selected project and search for boards of the selected project. |
| M04: Tasks | Web resources associated with tasks. The following system features are included: create task, see list of tasks of the selected board, select task to see last updates, see information about task (creator, description, team, deadline, and progress), update task (comment, update progress, upload file and close task) and search for tasks of the selected board. |
| M05: User administration | Web resources associated with user administration. The following system features are included: see full user list, search for user, see information about selected user (picture, full name, user level, data of registration, number of projects), send message to user, change user permissions and delete user. |
| M06: Project administration | Web resources associated with project administration. The following system features are included: see full project list, search for project, see information about selected project, archive and delete project. |
| M07: Static pages | Web resources with static content: homepage. |

1. **Permissions**

|  |  |  |
| --- | --- | --- |
| VIS | Visitor | Unauthenticated user, doesn’t have privileges |
| USR | User | Authenticated user |
| COR | Project coordinator | Creators of projects. Have privileges regarding permissions of that projects |
| WOR | Project worker | Workers of projects (users that belong to the project team, except the project coordinator) |
| ADM | Administrator | Group of administrators. Have privileges regarding user and project management. |

1. **Modules**

**Module M01: Authentication and individual profile**

* R101: Login form /login
* R102: Login action /login
* R103: Logout action /logout
* R104: Register form /register
* R105: Register action /register
* R106: View personal information /{id}/perosnalInfo
* R107: View personal calendar /{id}/personalCalendar/
* R108: Change password form /{id}/settings
* R109: Change password action /{id}/settings
* R110: Change full name form /{id}/settings
* R111: Change full name action /{id}/settings
* R112: Change privacy action /{id}/settings
* R113: Change image action /{id}/settings
* R114: View full contact list /{id}/contactList
* R115: Select option to add user to contact list action/{id\_user}/projectTeam or /{id\_user}/boardTeam
* R116: Add user to contact list form /{id\_user}/projectTeam or /{id\_user}/boardTeam
* R117: Add user to contact list action /{id\_user}/projectTeam or /{id\_user}/boardTeam
* R118: View user’s projects /{id}/projects
* R119: Search user’s projects page /{id}/projects
* R120: Search user’s projects API /api/{id}/projects

R101: Login form

|  |  |
| --- | --- |
| URL | /login |
| Description | Pop-up with a form to login to a user account |
| Method | GET |
| UI | UI02 |
| SUBMIT | R106 |
| Permissions | VIS |

R102: Login action

|  |  |  |
| --- | --- | --- |
| URL | /login | |
| Description | This web resource logs the user into the system. Redirects to the user’s projects page on success and the login form on failure. | |
| Method | POST | |
| Request Body | +email: string | E-mail |
|  | +password: string | Password |
| Redirects | R106 | Success |
|  | R102 | Error |
| Permissions | VIS | |

R103: Logout action

|  |  |
| --- | --- |
| URL | /logout |
| Description | This web resource logs the user out of the system, redirecting the user to the home page. |
| Method | POST |
| Redirects | R101 |
| Permissions | USR |

R104: Register form

|  |  |
| --- | --- |
| URL | /register |
| Description | Pop-up with a form to create a new account. |
| Method | GET |
| UI | UI03 |
| SUBMIT | R106 |
| Permissions | VIS |

R105: Register action

|  |  |  |
| --- | --- | --- |
| URL | /register | |
| Description | This web resource creates a new account, inserting the user into the system. Redirects to the login form on success and the register form on failure. | |
| Method | POST | |
| Request Body | +email: string | E-mail |
|  | +password: string | Password |
|  | +username: string | Username |
| Redirects | R101 | Success |
|  | R105 | Failure |
| Permissions | VIS | |

R106: View personal information

|  |  |  |
| --- | --- | --- |
| URL | /{id}/personalInfo | |
| Description | Shows the user his personal information page. | |
| Method | GET | |
| Parameters | +id: integer | User primary key |
| UI | UI07 | |
| Permissions | USR | |

R107: View personal calendar

|  |  |  |
| --- | --- | --- |
| URL | /{id}/personalCalendar | |
| Description | Shows the user his personal calendar page. | |
| Method | GET | |
| Parameters | +id: integer | User primary key |
| UI | UI08 | |
| Permissions | USR | |

R108: Change password form

|  |  |  |
| --- | --- | --- |
| URL | /{id}/settings | |
| Description | Page with a form to change account data. | |
| Method | GET | |
| Parameters | +password: string | New password |
|  | +confirmPassword: string | New password confirmation |
| UI | UI21 | |
| Permissions | USR | |

R109: Change password action

|  |  |  |
| --- | --- | --- |
| URL | /{id}/settings | |
| Description | This web resource changes the user’s profile picture. Redirects to the user settings page on success and failure. | |
| Method | POST | |
| Request Body | +id: integer | User primary key |
|  | +password: string | New password |
| Redirects | R109 | |
| Permissions | USR | |

R110: Change full name form

|  |  |  |
| --- | --- | --- |
| URL | /{id}/settings | |
| Description | Page with a form to change account data. | |
| Method | GET | |
| Parameters | +fullName: string | New full name |
| UI | UI21 | |
| Permissions | USR | |

R111: Change full name action

|  |  |  |
| --- | --- | --- |
| URL | /{id}/settings | |
| Description | This web resource changes the user’s full name. Redirects to the user settings page on and failure. | |
| Method | POST | |
| Request Body | +id: integer | User primary key |
|  | +fullName: string | New full name |
| Redirects | R111 | |
| Permissions | USR | |

R112: Change e-mail privacy action

|  |  |  |
| --- | --- | --- |
| URL | /{id}/settings | |
| Description | Page with a form to change account data. | |
| Method | POST | |
| Parameters | +privacy: bool | E-mail privacy |
| UI | UI21 | |
| Permissions | USR | |

R113: Change image action

|  |  |  |
| --- | --- | --- |
| URL | /{id}/settings | |
| Description | This web resource changes the user’s profile picture. Redirects to the user settings page on and failure. | |
| Method | POST | |
| Request Body | +image: string | Image path |
| Redirects | R113 | |
| Permissions | USR | |

R114: View full contact list

|  |  |  |
| --- | --- | --- |
| URL | /{id}/contactList | |
| Description | Shows the user his list of contacts. | |
| Method | GET | |
| Parameters | +id: integer | User primary key |
| UI | \* Doesn’t exist yet | |
| Permissions | USR | |

R115: Select option to add user to contact list action

|  |  |  |
| --- | --- | --- |
| URL | /{id\_user}/projectTeam or /{id\_user}/boardTeam | |
| Description | Web resource that creates pop up for the administrator to confirm or cancel the action of adding the user to the contact list. | |
| Method | POST | |
| Request Body | +id: integer | User (to add) primary key |
| Redirects | R116 | |
| Permissions | USR | |

R116: Add user to contact list form

|  |  |  |
| --- | --- | --- |
| URL | /{id\_user}/projectTeam or /{id\_user}/boardTeam | |
| Description | Pop-up of the form to add user to contact list. Redirects to the user contact list page. | |
| Method | GET | |
| UI | +id: integer | Id of the selected user |
| SUBMIT | \* Doesn´t exist yet |  |
| Permissions | USR | |

R117: Add user to contact list action

|  |  |  |
| --- | --- | --- |
| URL | /{id\_user}/projectTeam or /{id\_user}/boardTeam | |
| Description | Web resource that adds the user to the contact list. Redirects to the user contact list page. | |
| Method | POST | |
| Request Body | +id: integer | User primary key |
|  | +username: string | User’s username |
|  | +fullName: string | User’s full name |
|  | +email: string | User’s email |
|  | +confirm: boolean | Confirm desire to add contact |
| Redirects | R115 | |
| Permissions | ADM | |

R118: View user’s projects

|  |  |  |
| --- | --- | --- |
| URL | /{id}/projects | |
| Description | Show’s project forum page | |
| Method | GET | |
| Parameters | +id: integer | User primary key |
| UI | UI05 | |
| Permissions | USR | |

R119: Search user’s projects page

|  |  |  |
| --- | --- | --- |
| URL | /{id}/projects | |
| Description | Page with search bar to search the user’s projects. | |
| Method | GET | |
| Request Body | +query: string | String field to search for in projects |
|  | +id\_user: integer | User primary key |
| UI | UI05 | |
| AJAX calls | R120 | |
| Permissions | USR | |

R120: Search user’s projects API

|  |  |  |
| --- | --- | --- |
| URL | /api/{id}/projects | |
| Description | This web resource searches the system for projects and returns the results | |
| Method | GET | |
| Request Body | +query: string | String field to search for in projects |
|  | +id\_user: integer | User primary key |
| Response body | JSON01 | |
| Permissions | USR | |

**Module M02: Projects**

* R201: Create project form /{id\_user}/projects
* R202: Create project action /{id\_user}/projects
* R203: View project information /{id\_user}/projects/{id\_project}/info
* R204: View project calendar /{id\_user}/projects/{id\_project}/calendar
* R205: View project team /{id\_user}/projects/{id\_project}/team
* R206: Search workers page /{id\_user}/projects/{id\_project}/team
* R207: Search workers API /api/{id\_user}/projects/{id\_project}/team
* R208: Add worker form /{id\_user}/projects/{id\_project}/team
* R209: Add worker action /{id\_user}/projects/{id\_project}/team
* R210: Send message form /{id\_user}/projects/{id\_project}/forum
* R211: Send message action /{id\_user}/projects/{id\_project}/forum
* R212: View project forum /{id\_user}/projects/{id\_project}/forum

R201: Create project form

|  |  |
| --- | --- |
| URL | /{id\_user}/projects |
| Description | Pop-up with a form to create a new project |
| Method | GET |
| UI | UI05 |
| SUBMIT | R204 |
| Permissions | USR |

R202: Create project action

|  |  |  |
| --- | --- | --- |
| URL | /{id\_user}/projects | |
| Description | This web resource inserts the new project into the system. Redirects to the project’s information page on success and the create project form on failure. | |
| Method | POST | |
| Request Body | +name: text | Name |
|  | +description: text | Description |
|  | ?start\_date: date | Start date |
|  | ?end\_date: date | End date |
|  | ?privacy: boolean | Privacy |
| Redirects | R204 | Success |
|  | R201 | Error |
| Permissions | USR | |

R203: View project information

|  |  |  |
| --- | --- | --- |
| URL | /{id\_user}/projects/{id\_project}/info | |
| Description | Show’s project information page | |
| Method | GET | |
| Parameters | +id: integer | Project primary key |
| UI | UI11 | |
| Permissions | WOR | |

R204: View project calendar

|  |  |  |
| --- | --- | --- |
| URL | /{id\_user}/projects/{id\_project}/calendar | |
| Description | Show’s project calendar page | |
| Method | GET | |
| Parameters | +id: integer | Project primary key |
| UI | UI13 | |
| Permissions | WOR | |

R205: View project team

|  |  |  |
| --- | --- | --- |
| URL | /{id\_user}/projects/{id\_project}/team | |
| Description | Show’s project team page | |
| Method | GET | |
| Parameters | +id: integer | Project primary key |
| UI | UI12 | |
| Permissions | WOR | |

R206: Search workers page

|  |  |  |
| --- | --- | --- |
| URL | /{id\_user}/projects/{id\_project}/team | |
| Description | Page with search bar to search project workers. | |
| Method | GET | |
| Request Body | +query: string | String field to search for in users |
|  | +id\_project: integer | Project primary key |
| UI | UI12 | |
| AJAX calls | R207 | |
| Permissions | WOR | |

R207: Search workers API

|  |  |  |
| --- | --- | --- |
| URL | /api/{id\_user}/projects/{id\_project}/team | |
| Description | This web resource searches the system for users and returns the results | |
| Method | GET | |
| Request Body | +query: string | String field to search for in users |
|  | +id\_project: integer | Project primary key |
| Response body | JSON02 | |
| Permissions | WOR | |

R208: Add worker form

|  |  |
| --- | --- |
| URL | /{id\_user}/projects/{id\_project}/team |
| Description | Pop-up with a form to add a worker to the project team. |
| Method | GET |
| UI | \* |
| SUBMIT | R209 |
| Permissions | COR |

\*UI not implemented yet.

R209: Add worker action

|  |  |  |
| --- | --- | --- |
| URL | /{id\_user}/projects/{id\_project}/team | |
| Description | This web resource updates the project team in the system. Redirects to the project’s team page on success and the add worker form on failure. | |
| Method | POST | |
| Request Body | +id\_user: integer | User primary key |
|  | +id\_project: integer | Project primary key |
| Redirects | R205 | Success |
|  | R208 | Error |
| Permissions | COR | |

R210: Send message form

|  |  |
| --- | --- |
| URL | /{id\_user}/projects/{id\_project}/forum |
| Description | Page with form to write a message to project forum. |
| Method | GET |
| UI | UI14 |
| SUBMIT | R210 |
| Permissions | WOR |

R211: Send message action

|  |  |  |
| --- | --- | --- |
| URL | /{id\_user}/projects/{id\_project}/forum | |
| Description | This web resource inserts a new message into the system. Redirects to the project’s forum page on success and to the send message form on failure. | |
| Method | POST | |
| Request Body | +message: text | Message to send |
|  | +id\_project: integer | Project primary key |
|  | +id\_user: integer | User primary key |
| Redirects | R212 | Success |
|  | R210 | Error |
| Permissions | WOR | |

R212: View project forum

|  |  |  |
| --- | --- | --- |
| URL | /{id\_user}/projects/{id\_project}/forum | |
| Description | Shows project forum page | |
| Method | GET | |
| Parameters | +id: integer | Project primary key |
| UI | UI14 | |
| Permissions | WOR | |

**Module M03: Boards**

**Module M04: Tasks**

**Module M05: User administration**

* R501: View full user list /administration/users
* R502: Search for user page /administration/users
* R503: Search for user API /api/administration/users
* R504: Select user /administration/users
* R505: Select option to send message to user action /administration/users
* R506: Send message to user form /administration/users
* R507: Send message to user action /administration/users
* R508: Select option to change user permissions /administration/users
* R509: Change user permissions form /administration/users
* R510: Change user permissions action /administration/users
* R511: Select option to delete user /administration/users
* R512: Delete user form /administration/users
* R513: Delete user action /administration/users

R501: View full user list

|  |  |
| --- | --- |
| URL | /administration/users |
| Description | Shows the administrator a list of all the users registered in the system. |
| Method | GET |
| Parameters | None |
| UI | UI20 |
| Permissions | ADM |

R502: Search for user page

|  |  |  |
| --- | --- | --- |
| URL | /administration/users | |
| Description | Search box that allows searching for users. | |
| Method | GET | |
| Request Body | +query: string | String field to search for in users |
| UI | UI20 |  |
| AJAX calls | R503 | |
| Permissions | ADM | |

R503: Search for user API

|  |  |  |
| --- | --- | --- |
| URL | /api/administration/user | |
| Description | This web resource searches the system for users and returns the results | |
| Method | GET | |
| Request Body | +query: string | String field to search for in users |
| Response body | JSON02 | |
| Permissions | ADM | |

R504: Select user action

|  |  |  |
| --- | --- | --- |
| URL | /administration/users | |
| Description | Web resource that creates a drop down containing the user information and buttons that allow to send message, change permissions or delete user. | |
| Method | POST | |
| Request Body | +id: integer | Id of the selected user |
| Redirects | R504 |  |
| Permissions | ADM | |

R505: Select option to send message to user action

|  |  |  |
| --- | --- | --- |
| URL | /administration/users | |
| Description | Web resource that creates pop up for the administrator to write the message and send it. Redirects to the send message to user form. | |
| Method | POST | |
| Request Body | +id: integer | Id of the selected user |
| Redirects | R506 |  |
| Permissions | ADM | |

R506: Send message to user form

|  |  |  |
| --- | --- | --- |
| URL | /administration/users | |
| Description | Pop up with a form where the administrator can write the message and send it to the user. | |
| Method | GET | |
| Parameters | +id: integer | Id of the selected user |
| UI | \* Doesn’t exist yet | |
| Permissions | ADM | |

R507: Send message to user action

|  |  |  |
| --- | --- | --- |
| URL | /administration/users | |
| Description | Web resource that sends the wrote message by the administrator to the user. Redirects to the user list page. | |
| Method | POST | |
| Request Body | +id: integer | Id of the selected user |
|  | +message: text | Message to be sent to the user |
| Redirects | UI20 |  |
| Permissions | ADM | |

R508: Select option to change user permissions action

|  |  |  |
| --- | --- | --- |
| URL | /administration/users | |
| Description | Web resource that creates pop up for the administrator to select the user’s permissions. Redirects to the change user permissions form. | |
| Method | POST | |
| Request Body | +id: integer | Id of the selected user |
| Redirects | R504 |  |
| Permissions | ADM | |

R509: Change user permissions form

|  |  |  |
| --- | --- | --- |
| URL | /administration/users | |
| Description | Pop up with a form where the administrator can select the user permissions (user/administrator). | |
| Method | GET | |
| Parameters | +id: integer | Id of the selected user |
| UI | \* Doesn’t exist yet | |
| Permissions | ADM | |

R510: Change user permissions action

|  |  |  |
| --- | --- | --- |
| URL | /administration/users | |
| Description | Web resource that changes the user permissions in the system. Redirects to the user list page. | |
| Method | POST | |
| Request Body | +id: integer | Id of the selected user |
|  | +message: text | Message to be sent to the user |
|  | +administrator: bool | Permissions of the selected user to be updated in the system |
| Redirects | UI20 |  |
| Permissions | ADM | |

R511: Select option to delete user action

|  |  |  |
| --- | --- | --- |
| URL | /administration/users | |
| Description | Web resource that creates pop up for the administrator to confirm or cancel the deletion of the user. | |
| Method | POST | |
| Request Body | +id: integer | Id of the selected user |
| Redirects | R510 |  |
| Permissions | ADM | |

R512: Delete user form

|  |  |  |
| --- | --- | --- |
| URL | /administration/users | |
| Description | Pop-up to delete the selected user from the system. Redirects to the user list page. | |
| Method | GET | |
| UI | UI20 | |
| SUBMIT | R512 |  |
| Permissions | ADM | |

R513: Delete user action

|  |  |  |
| --- | --- | --- |
| URL | /administration/users | |
| Description | Web resource that deletes the selected user. Redirects to the user list page. | |
| Method | DELETE | |
| Request Body | +id: integer | Id of the selected user |
|  | +confirm: boolean | Confirm desire to delete user |
| Redirects | UI20 |  |
| Permissions | ADM | |

**Module M06: Project administration**

* R601: View full project list /administration/projects
* R602: Search projects page /administration/projects/search
* R603: Search projects API /api/administration/projects/search
* R604: View project information /administration/projects/{id}
* R605: Archive project form /administration/projects/{id}
* R606: Archive project action /administration/projects/{id}
* R607: Delete project form /administration/projects/{id}
* R608: Delete project action /administration/projects/{id}

R601: View full project list

|  |  |  |
| --- | --- | --- |
| URL | /administration/projects | |
| Description | Shows complete project list | |
| Method | GET | |
| Parameters | - | - |
| UI | \* | |
| Permissions | ADM | |

\*UI not implemented yet.

R602: Search projects page

|  |  |  |
| --- | --- | --- |
| URL | /administration/projects/search | |
| Description | Page with search bar to search projects. | |
| Method | GET | |
| Request Body | +query: string | String field to search for in projects |
| UI | \* | |
| AJAX calls | R303 | |
| Permissions | ADM | |

\*UI not implemented yet.

R603: Search projects API

|  |  |  |
| --- | --- | --- |
| URL | /api/administration/projects/search | |
| Description | This web resource searches the system for projects and returns the results | |
| Method | GET | |
| Request Body | +query: string | String field to search for in projects |
| Response body |  | |
| Permissions | ADM | |

R604: View project information

|  |  |  |
| --- | --- | --- |
| URL | /administration/projects/{id} | |
| Description | Show’s project information | |
| Method | GET | |
| Parameters | +id: integer | Project primary key |
| UI | \* | |
| Permissions | ADM | |

\*UI not implemented yet.

R605: Archive project form

|  |  |
| --- | --- |
| URL | /administration/projects/{id} |
| Description | Pop-up to archive project |
| Method | GET |
| UI | \* |
| SUBMIT | R606 |
| Permissions | ADM |

\*UI not implemented yet.

R606: Archive project action

|  |  |  |
| --- | --- | --- |
| URL | /administration/projects/{id} | |
| Description | This web resource updates the project state in the system. Redirects to the project’s information on success and to the archive project form on failure. | |
| Method | POST | |
| Request Body | +id | Project primary key |
|  | +confirm: boolean | Confirm desire to archive |
| Redirects | R604 | Success |
|  | R605 | Error |
| Permissions | ADM | |

R607: Delete project form

|  |  |
| --- | --- |
| URL | /administration/projects/{id} |
| Description | Pop-up to delete project |
| Method | GET |
| UI | \* |
| SUBMIT | R608 |
| Permissions | ADM |

\*UI not implemented yet.

R608: Delete project action

|  |  |  |
| --- | --- | --- |
| URL | /administration/projects/{id} | |
| Description | This web resource deletes the project and all its boards from the system. Redirects to the full project list on success and to the delete project form on failure. | |
| Method | POST | |
| Request Body | +id | Project primary key |
|  | +confirm: boolean | Confirm desire to archive |
| Redirects | R601 | Success |
|  | R607 | Error |
| Permissions | ADM | |

**Module M07: Static pages**

1. **JSON/HTML types**

The structure of the JSON formatted answers must be documented as illustrated below.

JSON01: Projects

{

"Project": [

{

"id":"1",

"description":"Projeto de LIEB para deteção de apneia do sono",

"start\_date":"2018/03/04",

"end\_date":"2019/05/18",

"name":"Hypnos",

"id\_coordinator":"1",

"project\_state":"In\_progress",

"privacy":"true",

"user\_archived":"NULL"

},

{

"id":"2",

"description":"NULL",

"start\_date":"2018/02/20",

"end\_date":"2019/05/25",

"name":"Fotopletismógrafo portátil",

"id\_coordinator":"1",

"project\_state":"In\_progress",

"privacy":"false",

"user\_archived":"NULL"

}

]

}

JSON02: Users

{

"User": [

{

"id":"1",

"e\_mail":"up201405655@fe.up.pt",

"full\_name":"Teresa Valério",

"password":"teresaMaya19",

"url":"444",

"username":"TeresaValerio",

"administrator":"true",

"user\_ban":"NULL"

},

{

"id":"2",

"e\_mail":"up201402784@fe.up.pt",

"full\_name":"Inês Gonçalves",

"password":"inesggtunafe8",

"url":"123",

"username":"InesGoncalves",

"administrator":"true",

"user\_ban":"NULL"

}

]

}

GROUP1734, 08/04/2018

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