# A7: High-level architecture. Privileges. Web resources specification

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 EventSS, including the following operations over data: create, read, update, and delete.

#### 1. 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 credential recovery.
M02: Users	Web resources associated with users and their individual profile management, including view and edit personal information, add friends, user search and notifications.
M03: Events	Web resources associated with events such as CRUD actions on an event, search events, invite and remove participants and CRUD posts.
M04: Administration	Web resources associated with administration such as view and ban users.
M05: Static Pages	Web resources associated with static pages, such as about page and 404 page.

## 2. 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.
USR	User	Authenticated user that can update their profiles and create or join events.
OWN	Owner	Group of users that have privileges regarding their events.
PRT	Participant	Group of users that can rate and create posts on the event they've been at.
ADM	Administration	Group of administrators.

## 3. 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

Endpoints of Module Authentication:

These are the endpoints available in the Authentication.

• R101: Login Form /login

• R102: Login Action /login

• R103: Register Form /register

• R104: Register Action /register

• R105: Logout Action /logout

## R101: Login Form

URL	/login
Description	Form to login to a user account.
Method	GET
UI	<u>UI01</u>
SUBMIT	R102
Permissions	PUB

# R102: Login Action

URL	/login		
Description	This web resource logs the user into the system. Redirects to		
	the authenticated homepage o	the authenticated homepage on success and stays on the	
	public homepage with the login modal open on failure.		
Method	POST		
Request Body	+username: string	Username	
	+password: string	Password	
Redirects	/homepage	Success	
	R101	Fail	
Permissions	PUB		

# R103: Register Form

URL	/register
Description	Form to sign up a new user account.
Method	GET
UI	<u>UI02</u>
SUBMIT	R104
Permissions	PUB

# R104: Register Action

URL	/register		
Description	This web resource signs up the user into the system. Redirects		
·	to the authenticated homepag	e on success and stays on the	
	public homepage with the sign	public homepage with the sign up modal open on failure.	
Method	POST	POST	
Request Body	?username: string	Username	
	?email: string	Email	
	?first_name: string First Name ?last_name: string Last Name		
	?city: string	City	
	?password: string	Password	
Redirects	/homepage	Success	
	R103	Fail	
Permissions	PUB		

## R105: Logout Action

URL	/logout	
Description	This web resource signs out the authenticated user or admin.	
Method	POST	
Redirects	<u>/index</u> Success	
Permissions	USR	

#### Module M02: Users

# Endpoints of Module Users:

These are the endpoints available in the Users.

- R201: View Profile /profile/{username }
- R202: Edit Profile Form /profile/{username}
- R203: Edit Profile API /api/profile/{username}
- R204: Add Friend Action / api /profile/{username friend}
- R205: Accept Friend Action / api /profile/
- R206: Remove Friend Action / api /profile/{username\_friend}
- R207: View Notifications /
- R208: Search Users /search
- R209: Search Users API /search/q={username}
- R210: Delete Account Action / api /profile/{username}

# R201: View Profile

URL	/profile/{username}	
Description	Shows the user individual profile page.	
Method	GET	
Parameters	+username: string User username	
UI	<u>profile</u>	
Permissions	USR	

#### R202: Edit Profile Form

URL	/profile/{username}	
Description	Form to edit the user information.	
Method	GET	
Parameters	+username: string User username	
UI	<u>profile</u>	
AJAX Calls	R203	
Permissions	PUB	

# R203: Edit Profile API

URL	/api/profile/{username}	
Description	This web resource updates the user information in the	
	system. Redirects to the updated profile on success.	
Method	PUT	
Parameters	+username: string User username	
Response Body	JSON203	
Permissions	USR	

# R204: Add Friend Action

URL	/api/profile/{username_friend}	
Description	Inserts a friend request into the system.	
Method	POST	
Parameters	+username_friend: string	
Redirects	R201	
Permissions	USR	

# R205: Accept Friend Action

URL	/api/profile/{username}	
Description	Inserts a friendship into the system.	
Method	POST	
Request Body	+user friend id: string Users friends Primary key	
Redirects	R201	
Permissions	USR	

# R206: Remove Friend Action

URL	/api/profile/{username_friend}	
Description	This web resource removes a friendship from the system	
Method	DELETE	
Parameter	+username_friend: string	Users_friends username
Redirects	R201	
Permissions	USR	

# R207: View Notifications

URL	/
Description	Displays the user's notifications such as friend's activities,
	friendship requests and invites to events.
Method	GET
Permissions	USR

# R208: Search Users

URL	/search	
Description	Form to search users.	
Method	GET	
Parameters	+name: string Username	
UI	<u>UI15</u>	
AJAX Calls	R209	
Permissions	USR	

## R209: Search Users API

URL	/search/?name={username}	
Description	This web resource searches the system for users and returns	
	the results.	
Method	GET	
Parameters	+name: string Username	
Response Body	JSON209	
Permissions	USR	

## R210: Delete Account Action

URL	/api/profile/{username}	
Description	This web resource deletes an account from the system.	
Method	DELETE	
Parameters	+username: string Username	
Redirects	R101, R103	
Permissions	USR	

#### Module M03: Events

#### Endpoints of Module Events:

These are the endpoints available in the Events.

- R301: View Events /events/{id event}
- R303: Add Event Action /api/events/{id}
- R304: Edit Event Form /events/{id event}
- R305: Edit Event Action /api/events/{id event}
- R306: Delete Event Action /api/events/{id event}
- R307: Search Events /search
- R308: Search Events API /search/q={event\_name}
- R309: Invite Users Action /events/{id event}
- R310: Accept Invite Action /events/{id event}
- R311: View Participants /events/{id\_event}
- R312: Remove Participants Action /events/{id event}
- R313: View Comments /events/{id\_event}
- R314: Create Post Form /events/{id event}
- R315: Create Post Action /events/{id event}
- R316: Edit Post Form /events/{id event}
- R317: Edit Post Action /events/{id event}
- R318: Delete Post Action / events/{id\_event}
- R319: Rate Form / events/{id event}
- R320: Rate Action / events/{id event}

#### R301: View Event

URL	/events/{event_id }	
Description	Shows the event information.	
Method	GET	
Parameters	+event_id: integer Event primary key	
	+user_id: integer	User primary key
UI	UI10	
Permissions	USR	

# R303: Add Event Action

URL	/api/events/{id}	
Description	Inserts an event into the system.	
Method	POST	
Parameters	+user_id: integer	
Response Body	+name: string	Event name
	+type: string	Туре
	+category: string	Category
	+date: datetime	Date
	+city: string	City
	+place: string	Place
	+description: string	Description
Permissions	USR	

# R304: Edit Event Form

URL	/events/{id_event}	
Description	Form to edit the event information.	
Method	GET	
Parameters	+owner_id: integer	
	+event_id: integer	Event primary key
UI	UI10	
SUBMIT	R305	
Permissions	OWN	

# R305: Edit Event Action

URL	/api/events/{id_event}	
Description	This web resource updates the event information in the	
	system. Redirects to the updated event on success.	
Method	PUT	
Parameters	+event_id: integer Event primary key	
Request Body	?name: string Event name	
	?type: string	Type
	?category: string	Category
	?date: datetime	Date
	?city: string	City
	?place: string	Place
	?description: string	Description
Redirects	R301	Success
Permissions	OWN	

## R306: Delete Event Action

URL	/api/events/{id_event}	
Description	This web resource deletes an event from the system	
Method	DELETE	
Parameters	+event_id: integer Event primary key	
Redirects	L	
Permissions	OWN, ADM	

# R307: Search Events

URL	/search	
Description	Form to search events.	
Method	GET	
Parameters	+name: string Event name	
UI	<u>UI15</u>	
AJAX Calls	R308	
Permissions	USR	

# R308: Search Events API

URL	/search/q={event_nan	/search/q={event_name}	
Description	This web resource sea	This web resource searches the system for events and returns	
	the results.	the results.	
Method	GET	GET	
Parameters	+name: string	+name: string Event name	
Response Body	JSON308	JSON308	
Permissions	USR		

R309: Invite User Action

URL	/events/{id_event}	
Description	This web resource inserts an event invite into the system.	
Method	POST	
Parameters	+event_id: integer Event primary key	
Request Body	?receiver_id: integer	Users primary key
Redirects	R301	
Permissions	OWN	

# R310: Accept Invite Action

URL	/events/{id_event}	
Description	This web resource inserts a participant into the system.	
Method	POST	
Parameters	+event_id: integer Event primary key	
Request Body	?user_id: integer	
Redirects	R301	
Permissions	USR	

# R311: View Participants

URL	/events/{id_event}	
Description	Shows the participants of an event.	
Method	GET	
Parameters	+event_id: integer Event primary key	
UI	<u>UI10</u>	
Permissions	PRT, OWN, ADM	

# R312: Remove Participant Action

URL	/events/{id_event}	
Description	This web resource removes a participant of an event from the	
	system	
Method	DELETE	
Parameters	+event_id: integer Event primary key	
Request body	?user_id: integer	Participant
Redirects	R301	
Permissions	OWN	

# R313: View Comments

URL	/events/{id_event}	
Description	Shows the comments of a post.	
Method	GET	
Parameters	+event_id: integer Event primary key	
	+post_id: integer	Post primary key
UI	<u>UI10</u>	
Permissions	PRT, OWN, ADM	

# R314: Create Post Form

URL	/events/{id_event}	
Description	Form to create a post.	
Method	GET	
Parameters	+event_id: integer	Event primary key
UI	<u>UI10</u>	
SUBMIT	R315	
Permissions	PRT, OWN, ADM	

# R315: Create Post Action

URL	/events/{id_event}	
Description	This web resource inserts a post in an event into the system.	
Method	POST	
Parameters	+event_id: integer Event primary key	
Response Body	+image_path: string	
	+date: datetime	Date
	+description: string	Description
Permissions	PRT, OWN, ADM	

# R316: Edit Post Form

URL	/events/{id_event}	
Description	Form to edit a post.	
Method	GET	
Parameters	+event_id: integer	Event primary key
	+post_id: integer	Post primary key
UI	<u>UI10</u>	
SUBMIT	R317	
Permissions	PRT, OWN, ADM	

# R317: Edit Post Action

URL	/events/{id_event}		
Description	This web resource updates the event information in the		
	system. Redirects to the updat	system. Redirects to the updated event on success.	
Method	PUT		
Parameters	+post_id: integer	Posts primary key	
	+event_id: integer	Events primary key	
Request Body	?image_path: string		
	?date: datetime	Date	
	?description: string	Description	
Redirects	R301	Success	
Permissions	PRT, OWN, ADM		

# R318: Delete Post Action

URL	/events/{id_event}	
Description	This web resource deletes a post from the system	
Method	DELETE	
Parameters	+event_id: integer Event primary key	
Request Body	?post_id: integer	Post primary key
Redirects	R301	
Permissions	OWN, ADM, PRT	

# R319: Rate Form

URL	/events/{id_event}	
Description	Form to rate an event .	
Method	GET	
Parameters	+event_id: integer	Event primary key
UI	UI12	
SUBMIT	R315	
Permissions	PRT	

# R320: Rate Action

URL	/events/{id_event}	
Description	Inserts a rating of an event into the system.	
Method	POST	
Parameters	+event_id: integer Event primary key	
Request Body	?value: integer	Rating value
Redirects	R301	Success
Permissions	PRT	

Module M04: Administration

# Endpoints of Module Administration:

These are the endpoints available in the Administration.

• R401: Get users /admin

• R402: Ban users Action /admin

• R403: Get events /admin

#### R401: Get users

URL	/admin
Description	Shows the all users in the system.
Method	GET
UI	<u>UI04</u>
Permissions	ADM

#### R402: Ban users Action

URL	/admin	
Description	This web resource inserts a ban user into the system.	
Method	POST	
Request Body	?user_id: integer	User (to ban) primary key
Redirects	R401	
Permissions	ADM	

## R403: Get events

URL	/admin
Description	Shows the all events in the system.
Method	GET
UI	<u>UI04</u>
Permissions	ADM

Module M05: Static Pages

Endpoints of Module Static Pages:

These are the endpoints available in the Static Pages.

R501: About /aboutR502: 404 /404

## R501: About

URL	/about
Description	Get about page.
Method	GET
UI	<u>UI14</u>
Permissions	PUB

#### R502: 404

URL	/404
Description	Get 404 page.
Method	GET
UI	
Permissions	PUB

# 4. JSON

# JSON209: Edit Profile: {username}[]

#### JSON209: Search Users: {user}[]

#### JSON308: Search Events: {event}[]

# **Revision History:**

- 1. Change login and sign up to be pages with redirects in case of failure
- 2. Edit profile with AJAX
- 3. Correction of redirects for routes and URL in general
- 4. Removing the reset password form
- 5. View notifications is no longer a resource
- 6. User\_id is now obtained by session and, so, many tables were changed accordingly
- 7. Added view events in the admin page

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