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 and Static Pages	Web resources associated with administration and static pages, such as view and ban users, view and eliminate events and about 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 /index

• R102: Login Action /index

• R103: Sign up Form /index

R104: Sign up Action /index

• R105: Reset Password Form /index

• R106: Reset Password Action /index

• R107: Logout Action /homepage

R101: Login Form

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

R102: Login Action

URL	/index	
Description	This web resource logs the user into the system. Redirects to 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	<u>homepage</u>	Success
Permissions	PUB	

R103: Sign up Form

URL	/index
Description	Modal with a form to sign up a new user account.
Method	GET
UI	<u>UI02</u>
SUBMIT	R104
Permissions	PUB

R104: Sign up Action

URL	/index		
Description	This web resource signs up the user into the system. Redirects to		
	the authenticated homepage on success and stays on the 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		
	+country: string	Country	
	+city: string	City	
	+password: string	Password	
Redirects	<u>homepage</u>	Success	
Permissions	PUB		

R105: Reset Password Action

URL	/index	
Description	This web resource sends a link to reset password to the specified	
	email.	
Method	POST	
Request Body	+email: String User email	
Redirects	<u>UI01</u>	
Permissions	PUB	

R106: Logout Action

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

Module M02: Users

Endpoints of Module Users:

These are the endpoints available in the Users.

- R201: View Profile /{username}
- R202: Edit Profile Form /{username}
- R203: Edit Profile Action /{username}
- R204: Add Friend Action /{username_friend}
- R205: Accept Friend Action /homepage
- R206: Remove Friend Action /{username_friend}
- R207: View Notifications /homepage
- R208: Search Users /search
- R209: Search Users API /search
- R210: Delete Account Action /{username}

R201: View Profile

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

R202: Edit Profile Form

URL	/{username}	
Description	Form to edit the user information.	
Method	GET	
Parameters	+username: string User secondary key	
UI	profile	
SUBMIT	R203	
Permissions	PUB	

R203: Edit Profile Action

URL	/{username}		
Description	This web resource updates the user information in the system.		
	Redirects to the updated profile on success.		
Method	PUT	PUT	
Parameters	+username: string user secondary key		
Request Body	?image_path: string		
	?first_name: string	First Name	
	?last_name: string	Last Name	
	?country: string	Country	
	?city: string	City	
	?password: string	Password	
Redirects	<u>profile</u>	Success	
Permissions	USR		

R204: Add Friend Action

URL	/{username_friend}	
Description	This web resource inserts a friend request into the system.	
Method	POST	
Parameters	+username: string	Users secondary key
	+username_friend: string	Users_friends secondary key
Redirects	R201	
Permissions	USR	

R205: Accept Friend Action

URL	/homepage	/homepage	
Description	This web resource inserts a fri	This web resource inserts a friendship into the system.	
Method	POST	POST	
Parameters	+username: string	+username: string Users secondary key	
	+username_friend: string	Users_friends secondary key	
Redirects	R201		
Permissions	USR		

R206: Remove Friend Action

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

R207: View Notifications

URL	/homepage	
Description	This web resource displays the user's notifications such as friend's	
	activities, friendship requests and invites to events.	
Method	GET	
Parameters +username: string Users secondary		Users secondary key
	+username_friend: string	Users_friends secondary key
	+event_id: integer	Events primary key
Redirects		
Permissions	USR	

R208: Search Users

URL	/search	
Description	Form to search users.	
Method	GET	
Parameters	?username: string Username	
	?email: string	Email
UI	UI15	
AJAX Calls	R209	
Permissions	USR	_

R209: Search Users API

URL	/search	/search	
Description	This web resource searche results.	This web resource searches the system for users and returns the results.	
Method	GET	GET	
Parameters	?username: string Username		
	?email	Email	
Response Body	JSON209	JSON209	
Permissions	USR	USR	

R210: Delete Account Action

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

Module M03: Events

Endpoints of Module Events:

These are the endpoints available in the Events.

- R301: View Events /{id_event}
- R302: Add Event Form /homepage
- R303: Add Event Action /homepage
- R304: Edit Event Form /{id_event}
- R305: Edit Event Action /{id_event}
- R306: Delete Event Action /{id_event}
- R307: Search Events /search
- R308: Search Events API /search
- R309: Invite Users Action /{id_event}
- R310: Accept Invite Action /{id_event}
- R311: View Participants /{id_event}
- R312: Remove Participants Action /{id_event}
- R313: View Comments /{id_event}
- R314: Create Post Form /{id_event}
- R315: Create Post Action /{id_event}
- R316: Edit Post Form /{id_event}
- R317: Edit Post Action /{id_event}
- R318: Delete Post Action /{id_event}
- R319: Rate Form /{id event}
- R320: Rate Action /{id_event}

R301: View Event

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

R302: Add Event Form

URL	/homepage	
Description	Form to add an event.	
Method	GET	
Parameters	+user_id: integer	User primary key
UI	<u>UI05</u>	
SUBMIT	R303	
Permissions	USR	

R303: Add Event Action

URL	/homepage	
Description	This web resource inserts an event into the system.	
Method	POST	
Parameters	+user_id: integer	User primary key
Request Body	+name: string	Event name
	+type: string	Туре
	+category: string	Category
	+date: datetime	Date
	+country: string	Country
	+city: string	City
	+place: string	Place
	+description: string	Description
Redirects	/{event_id}	Success
Permissions	USR	

R304: Edit Event Form

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

R305: Edit Event Action

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

R306: Delete Event Action

URL	/{event_id }	
Description	This web resource deletes an event from the system	
Method	DELETE	
Parameters	+user_id: integer User primary key	
	+event_id: integer	Event primary key
Redirects	homepage	
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	
Description	This web resource searches the system for events and returns the	
	results.	
Method	GET	
Parameters	+name: string Event name	
Response Body	JSON308	
Permissions	USR	

R309: Invite User Action

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

R310: Accept Invite Action

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

R311: View Participants

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

R312: Remove Participant Action

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

R313: View Comments

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

R314: Create Post Form

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

R315: Create Post Action

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

R316: Edit Post Form

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

R317: Edit Post Action

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

R318: Delete Post Action

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

R319: Rate Form

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

R320: Rate Action

URL	/{event_id }		
Description	This web resource inserts a	This web resource inserts a rating of an event into the system.	
Method	POST	POST	
Parameters	+user_id: integer	User primary key	
	+event_id: integer	Event primary key	
Request Body	value: integer	Rating value	
Redirects	/{event_id}	Success	
Permissions	PRT		

Module M04: Administration and Static Pages

Endpoints of Module Administration and Static Pages:

These are the endpoints available in the Administration and Static Pages.

• R401: Get users /admin

• R402: Ban users Action /admin

R403: About /aboutR404: 404 /404

R401: Get users

URL	/admin	
Description	Shows the all users in the system.	
Method	GET	
Parameters	+user_id: integer	User primary key
UI	<u>UI04</u>	
Permissions	ADM	

R402: Ban users Action

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

R403: About

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

R404: 404

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

4. JSON

JSON209: Search Users: {user}[]

JSON308: Search Events: {event}[]

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