

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

GROUP1714, 08/04/2018

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1. Overview

M01: Authentication and Individual Profile	Web resources associated with user authentication and individual profile management include the following system features: login/logout, registration, credential recovery, view and edit personal profile information, manage purchased tickets and upcoming events and see activity feed.
M02: Events	Web resources associated with events include the following system features: creating, joining, inviting and comment, as well as ban and update the information(the latter are for event admins only). Activity feed, participants and comments will also be available to inspect.
M03: Communities	Web resources associated with communities include the following system features: creating, joining and inviting, as well as ban and update the information(the latter are for community admins only). Activity feed and events associated will also be available to inspect.
M04: Tickets	Web resources associated with tickets include the following system features: purchasing, choosing the type of ticket and managing them at the account.
M05: Website Administration	Web resources associated with the website administration include: delete or block user accounts and manage their comments, as well as ban events and communities.
M06: User Management	Web resources associated with user management include the following system features: view, search and befriend users.
M07: Static pages	Web resources associated with static content include the following system features: dashboard, about, contact, faq and error pages.

2. Permissions

VISI	Visitor	Group of users without privileges
MEMB	Member	Authenticated User
CADM	Community Administrator	Privileged Member that manages a Community

EADM	Event Administrator	Privileged Member that manages an Event
ADMN	Website Administrator	Privileged Member that manages general reports

3. Modules

M01: Authentication and Individual Profile

Endpoints of Module 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 Profile /members/{id}
- R107: Edit Profile Form /members/{id}/edit
- R108: Edit Profile Action /members/{id}/edit
- R109: Password Reset Form /password/reset
- R110: Password Reset Action /password/reset

R101: Login Form

URL	/login
Description	Page with a form for a Visitor to login.
Method	GET
UI	UI14
SUBMIT	R102
Permissions	VISI

R102: Login Action

URL	/login	
Description	Logs the Visitor into the system. If successful, redirects to the main homepage, otherwise it goes back to the login form.	
Method	POST	
Request Body	+email: string	Username
	+password: string	Password
Redirects	UI02	Success
	R101	Error
Permissions	VISI	

R103: Logout Action

URL	/logout
Description	Logs the Member out of the system. Redirects to Visitor Homepage.
Method	POST
Redirects	UI01
Permissions	MEMB

R104: Register Form

URL	/register
Description	Page with a form for a Visitor to register.
Method	GET
UI	UI13
SUBMIT	R105
Permissions	VISI

R105: Register Action

URL	/register	
Description	Creates an account and logs the Visitor into the system, if successful, by redirecting to the Member Homepage. Otherwise, it goes back to the register form.	
Method	POST	
Request Body	+username: string	Username
	+email: string	E-mail address
	+password: string	Password
	+confirmPassword: string	Password confirmation
	+country: string	Country
Redirects	UI02	Success
	R104	Error
Permissions	VISI	

R106: View Member profile

URL	/user/{id}
Description	Member profile page

Method	GET
Parameters	+idmember: integer member: primary key
UI	UI15
Permissions	MEMB

R107: Edit Profile Form

URL	/users/{id}/edit
Description	Page with a form to edit profile info.
Method	GET
Parameters	+idmember: integer member: primary key
UI	UI16
SUBMIT	R108
Permissions	MEMB

R108: Edit Profile Action

URL	/users/{id}/edit	
Description	Edits the Member's profile information. Redirects to the Member's profile if successful. On failure goes to edit profile page.	
Method	POST	
Parameters	+idmember: integer	member: primary key
	?about: string	About text
	?email: string	E-mail address
	?password: string	Password
	?confirmPassword: string	Password confirmation
	?country: string	Country
	?image: string	Profile picture path
	?name: string	Name
	?dateOfBirth: string	Date of birth
	?address: string	Member's physical address
Redirects	R106	Success
	R107	Error
Permissions	MEMB	

R109: Password Reset Form

URL	/password/reset	
Description	Form to reset the Member's password	
Method	GET	
Parameters	+idmember: integer	member: primary key
Request Body	+password: string	New password
	+confirmPassword: string	Password confirmation
UI	UI22	
Permissions	MEMB	

R110: Password Reset Action

URL	/password/reset	
Description	Password reset page	
Method	POST	
Parameters	+idmember: integer	member: primary key
Permissions	MEMB	

M02: Events

Endpoints of Module Events

These are the endpoints available in the Events Module.

- R201: Search Event Page /events
- R202: View Event /events/{id}
- R203: Create Event Form /events/create
- R204: Create Event Action /events/create
- R205: Edit Event Form /events/{id}/edit
- R206: Edit Event Action /events/{id}/edit
- R207: Invite Person Form /events/{id}
- R208: Invite Person Action /events/{id}/invite
- R209: Delete Event Action /events/{id}
- R210: Search Event API api/events

R201: Search Event Page

URL	/events
Description	Page with a form to search events.
Method	GET

Parameters	?name: string	event: name
	?city: string	event: city
	?start: date	event: startDay
	?end: date	event: endDay
UI	UI12	
AJAX Calls	R210	
Permissions	MEMB	

R202: View Event

URL	/events/{id}
Description	Event page
Method	GET
Parameters	+idevent: integer event: primary key
UI	UI09
Permissions	VISI, MEMB

R203: Create Event Form

URL	/events/create
Description	Page with a form to create a new event.
Method	GET
UI	UI08
SUBMIT	R204
Permissions	MEMB

R204: Create Event Action

URL	/events/create	
Description	Web resource that creates a new event based on the input received. Redirects to the new event page on success and back to the new event form on failure.	
Method	POST	
Parameters	+idevent: integer	event: primary key
Request Body	?name: string	Event name
	?Decription: string	Event description
	?startDate: date	Event start date

	?endDate: date	Event end date
	?visibility: boolean	Event visibility to uninvited users
	?image: string	Profile picture path
	?location: string	Event location
	?lodgingLink: string	URL to external lodging page
	?venueInformation: string	Information on the event's venue
	R202	Success
Redirects	R203	Error
Permissions	MEMB	

R205: Edit Event Form

URL	/events/{id}/edit
Description	Page with a form to edit an existing event.
Method	GET
UI	UI10
SUBMIT	R206
Permissions	EADM

R206: Edit Event Action

URL	/events/{id}/edit	
Description	Web resource that edits an existing event based on the input received. Redirects to the updated event page on success and back to the edit event form on failure.	
Method	POST	
Parameters	+idevent: integer	event: primary key
Request Body	?name: string	Event name
	?Description: string	Event description
	?startDate: date	Event start date
	?endDate: date	Event end date
	?visibility: boolean	Event visibility to uninvited users
	?image: string	Profile picture path
	?location: string	Event location
	?lodgingLink: string	URL to external lodging page

	?venueInformation: string	Information on the event's venue
Redirects	R202	Success
	R205	Error
Permissions	EADM	

R207: Invite Member Form

URL	/events/{id}/	
Description	Pop-up with a form to invite other Members to the event. If the event is public, any Member can invite. Otherwise, only the Event Admin can invite.	
Method	GET	
SUBMIT	R208	
Permissions	MEMB, EADM	

R208: Invite Member Action

URL	/events/{id}/invite	
Description	Web resource that creates a notification for the invited Member. Redirects to the event page.	
Method	POST	
Parameters	+idevent: integer	event: primary key
Request Body	+idmember: integer	member: primary key
Redirects	R202	Success/Error
Permissions	MEMB, EADM	

R209: Delete Event Action

URL	/events/{id}	
Description	Web resource deletes an existing event from the sytem. Redirects to the home page on success and back to the event page on error.	
Method	DELETE	
Parameters	+idevent: integer	event: primary key
Redirects	UI02	Success
	R202	Error
Permissions	EADM	

R210: Event Search API

URL	/api/events/	
Description	Web resource searches the system for events and returns the results.	
Method	GET	
Parameters	?query: string	Event name
	?city: string	Event city
	?start: date	Event start date
	?end: date	Event end date
Response Body	JSON210	
Permissions	MEMB	

M03: Communities

Endpoints of Module Communities

- R301: Search Community Page /communities
- R302: View Community /communities/{id}
- R303: Create Community Form /communities/create
- R304: Create Community Action /communities/create
- R305: Edit Community Form /communities/{id}/edit
- R306: Edit Community Action /communities/{id}/edit
- R307: Invite Person Form /communities/{id}
- R308: Invite Person Action /communities/{id}/invite
- R309: Delete Community Action /communities/{id}
- R310: Community Search API /api/communities

R301: Search Community Page

URL	/communities	
Description	Page with a form to search for communities.	
Method	GET	
Parameters	?name: string	community: name
	?category: string	community: category
UI	UI07	
AJAX Calls	R310	
Permissions	MEMB	

R302: View Community

URL	/communities/{id}
Description	Community page.
Method	GET
Parameters	+idcommunity: integer community: primary key
UI	UI04
Permissions	VISI, MEMB

R303: Create Community Form

URL	/communities/create
Description	Page with a form to create a new community.
Method	GET
UI	UI03
SUBMIT	R304
Permissions	MEMB

R304: Create Community Action

URL	/communities/create	
Description	Web resource that creates a new community based on the input received. Redirects to the new community page on success and back to the new community form on failure.	
Method	POST	
Parameters	+idcommunity: integer	community: primary key
	+name: string	Community name
Request Body	+description: string	Community description
	+visibility: boolean	Community visibility to uninvited users
	+image: string	Profile picture path
Redirects	R302	Success
	R303	Error
Permissions	MEMB	

R305: Edit Community Form

URL	/communities/{id}/edit
Description	Page with a form to edit an existing community.
Method	GET

UI	UI05
SUBMIT	R306
Permissions	CADM

R306: Edit Community Action

URL	/communities/{id}/edit	
Description	Web resource that edits an existing community based on the input received. Redirects to updated community page on success and back to the form on error.	
Method	POST	
Parameters	+idcommunity: integer	community: primary key
	+name: string	Community name
Request Body	+description: string	Community description
	+visibility: boolean	Community visibility to uninvited users
	+image: string	Profile picture path
Redirects	R302	Success
	R305	Error
Permissions	CADM	

R307: Invite Member Form

URL	/communities/{id}/	
Description	Pop-up with a form to invite other Members to the community. If the community is public, any Member can invite. Otherwise, only the Community Admin can invite.	
Method	GET	
SUBMIT	R309	
Permissions	MEMB, CADM	

R308: Invite Member Action

URL	/events/{id}/invite	
Description	Web resource that creates a notification for the invited Member. Redirects to the Community page.	
Method	POST	
Parameters	+idevent: integer	event: primary key
Request	+idmember: integer	member: primary key

Body		
Redirects	R302	Success/Error
Permissions	MEMB, EADM	

R309: Delete Community Action

URL	/communities/{id}	
Description	Web resource that deletes an existing existing from the system. Redirects to the home page on success and back to the community page on failure.	
Method	DELETE	
Parameters	+idcommunity: integer	community: primary key
Redirects	UI02	Success
	R302	Error
Permissions	CADM	

R310: Community Search API

URL	/api/communities/	
Description	Web resource searches the system for communities and returns the results.	
Method	GET	
Parameters	?query: string	Community name
	?category: string	Community category
Response Body	JSON310	
Permissions	MEMB	

M04: Tickets

Endpoints of Module Tickets

- R401: Purchase Ticket Form /events/{id}/tickets
- R402: Purchase Ticket Action /events/{id}/tickets
- R403: Manage Purchased Tickets /members/{id}/tickets
- R404: Download Ticket PDF /members/{id}/tickets/{id}

R401: Purchase Ticket Form

URL	/events/{id}/tickets
Description	Page with a form used to buy tickets for an event.
Method	GET

Parameters	+idevent: integer event: primary key
UI	UI23
SUBMIT	R402
Permissions	MEMB

R402: Purchase Ticket Action

URL	/events/{id}/tickets	
Description	Web resource that buys specified ticket(s) for an event. Redirects to Member's purchased tickets on success and either to the event page on failure or to the Edit Member Profile form in case the billing information hasn't been filled out.	
Method	POST	
Parameters	+idevent: integer	event: primary key
	+idmember: integer	member: primary key
Request Body	+type: string	Ticket type
	+amount: integer	Ticket amount
Redirects	R403	Success
	R107	Error (when there is missing billing information)
	R202	Error
Permissions	MEMB	

R403: Manage Purchased Tickets

URL	/members/{id}/tickets	
Description	Page with information about a member's purchased tickets.	
Method	GET	
Parameters	+idmember: integer	member: primary key
UI	UI15	
Permissions	MEMB	

R404: Download Ticket PDF

URL	/members/{id}/tickets/{id}	
Description	Page with a ticket's PDF file to be printed out.	
Method	GET	
Parameters	+idevent: integer	event: primary key

	+idmember: integer member: primary key
UI	UI15
Permissions	MEMB

M05: Website Administration

Endpoints of Module User Administration

- R501: View Reports /administration
- R502: Process Report Action /administration/reports/{id}
- R503: Ban Event /administration
- R504: Ban Event Action/administration/ban_event/{id}
- R505: Ban Community /administration
- R506: Ban Community Action /administration/ban_community/{id}
- R507: Ban Member /administration
- R508: Ban Member Action /administration/ban_member/{id}
- R509: Remove Comment /administration
- R510: Remove Comment Action /administration/remove_comment/{id}
- R511: Add Admin Privileges /administration
- R512: Add Admin Privileges Action /administration/admin/{id}

R501: View Reports

URL	/administration
Description	Page with the list of Reports created by Members.
Method	GET
Parameters	+idevent: integer event: primary key
	+idmember: integer member: primary key
UI	UI17
Permissions	ADMN

R502: Process Report Action

URL	/administration
Description	Sets a Report as solved.
Method	POST
Parameters	+idmember: integer event: primary key
	+idreport: integer member: primary key
Permissions	ADMN

R503: Ban Event

URL	/administration
Description	Page with Events to ban.
Method	GET
Parameters	+idevent: integer event: primary key
	+idreport: integer report: primary key
Permissions	ADMN

R504: Ban Event Action

URL	/administration/ban_event/{id}
Description	Web resource that bans an event.
Method	POST
Parameters	+idevent: integer event: primary key
Redirects	R503 Success
	R503 Error
Permissions	ADMN

R505: Ban Community

URL	/administration
Description	Page with communities to ban.
Method	GET
Parameters	+idcommunity: integer community: primary key
	+idreport: integer report: primary key
Permissions	ADMN

R506: Ban Community Action

URL	/administration/ban_community/{id}
Description	Web resource that bans a community.
Method	POST
Parameters	+idcommunity: integer community: primary key
Redirects	R505 Success
	R505 Error
Permissions	ADMN

R507: Ban Member

URL	/member
Description	Page with members to ban.
Method	GET
Parameters	+idmember: integer member: primary key
	+idreport: integer report: primary key
Permissions	ADMN

R508: Ban Member Action

URL	/administration/ban_member/{id}
Description	Web resource that bans a member.
Method	POST
Parameters	+idmember: integer member: primary key
Redirects	R507 Success
	R507 Error
Permissions	ADMN

R509: Remove Comment

URL	/member
Description	Page with comments to remove.
Method	GET
Parameters	+idcomment: integer comment: primary key
	+idcomment: integer comment: primary key
Permissions	ADMN

R510: Remove Comment Action

URL	/administration/remove_comment/{id}
Description	Web resource that removes a comment.
Method	POST
Parameters	+idcomment: integer comment: primary key
Redirects	R509 Success
	R509 Error

Permissions ADMN

R511: Add Admin Privileges

URL	/administration	
Description	Page with form to toggle website Administrator privileges.	
Method	GET	
Parameters	+idmember: integer	member: primary key
Permissions	ADMN	

R512: Add Admin Privileges Action

URL	/administration/admin/{id}	
Description	Web resource that toggles website Administrator privileges.	
Method	POST	
Parameters	+idmember: integer	member: primary key
Redirects	R511	Success
	R511	Error
Permissions	ADMN	

M06: Member Management

Endpoints of Member Management

- R601: Search Member /members
- R602: Befriend Member Action /buddies/add/{id}
- R603: Defriend Member Action /buddies/remove/{id}
- R604: Member Search API api/members

R601: Search Member

URL	/members	
Description	Page with a search bar to search for members.	
Method	GET	
Parameters	?username: integer	member: username
	?name: string	member: name
AJAX Calls	R604	
Permissions	MEMB	

R602: Befriend Member Action

URL	/buddies/add/{id}	
Description	Web resource that adds a member as a buddy.	
Method	POST	
Parameters	+idmember: integer	member: primary key
Redirects	R106	Success
	R601	Error
Permissions	MEMB	

R603: Unfriend Member Action

URL	/buddies/remove/{id}	
Description	Web resource that removes a member as a buddy.	
Method	POST	
Parameters	+idmember: integer	member: primary key
Redirects	R106	Success
	R601	Error
Permissions	MEMB	

R604: Member Search API

URL	/api/members/	
Description	Web resource searches the system for members and returns the results.	
Method	GET	
Parameters	?query: string	Member username
	?name: string	Member name
Response Body	JSON604	
Permissions	MEMB	

M07: Static pages

Endpoints of Static Pages

- R701: About /about
- R702: Services /contact
- R703: FAQ /faq
- R704: 404 /404

R701: About

URL	/about
Description	About page.
Method	GET
UI	UI19
Permissions	VISI, MEMB

R702: Services

URL	/contact
Description	Contact page.
Method	GET
UI	UI20
Permissions	VISI, MEMB

R703: FAQ

URL	/faq
Description	Frequently Asked Questions page.
Method	GET
UI	UI18
Permissions	VISI, MEMB

R704: 404

URL	/404
Description	Page that appears when a resource is missing.
Method	GET
UI	UI21
Permissions	VISI, MEMB

4. JSON/XML Types

JSON210: Search Events

```
{  
  "event": [  

```

```

{
  "idevent": "1",
  "name": "Queima das Fitas",
  "description": "A week full of activities",
  "imagePath" : "http://dummyimage.com/145x144.jpg/cc0000/ffffff",
  "startday" : "2018-05-10",
  "endday" : "2018-05-17",
  "starttime" : "09:00",
  "endtime" : "09:00",
  "country": "Portugal",
  "city": "Porto",
  "address": "null",
  "publiclink": "https://reevent.io/events/1",
  "ispublic": "true",
  "community": "null",
  "isactive": "true",
},
{
  "idevent": "10",
  "name": "Feupinhos na Queima",
  "description": "Javardar no queimódromo",
  "imagePath" : "http://dummyimage.com/145x144.jpg/cc1000/ff67ff",
  "startday" : "2018-05-11",
  "endday" : "2018-05-16",
  "starttime" : "07:00",
  "endtime" : "23:59",
  "country": "Portugal",
  "city": "Porto",
  "address": "Rua Dr. Roberto Frias, s/n",
  "publiclink": "https://reevent.io/events/10",
  "ispublic": "false",
  "community": "2",
  "isactive": "true",
}
]
}

```

JSON310: Search Communities

```

{
  "community": [
    {
      "idcommunity": "1",
      "name": "Angélicos",
      "description": "Mr Burns' Burning Cult",
      "creationdate": "2017-07-18",
      "imagePath" : "http://dummyimage.com/145x144.jpg/cc0000/ffffff",
      "publiclink": "https://reevent.io/communities/1",
      "ispublic": "true",
      "isactive": "true",
    },
    {

```

```

    "idcommunity": "2",
    "name": "Feupinhos",
    "description": "Noob central ",
    "creationdate": "2018-01-01",
    "imagePath" : "http://dummyimage.com/145x144.jpg/cc0000/ffffff",
    "publiclink": "https://reevent.io/communities/2",
    "ispublic": "true",
    "isactive": "true",
  }
]
}

```

JSON604: Search Members

```

{
  "member": [
    {
      "idmember": "100",
      "name": "Fernando Mendes",
      "username": "xX_ES83D4CUL0_Xx",
      "country": "Portugal",
      "about": "Nandinho das Montras",
      "profilepicture" : "http://dummyimage.com/145x144.jpg/cc0000/ffffff",
      "registrationdate": "https://reevent.io/members/100"
    },
    {
      "idmember": "2",
      "name": "Hugo Cunha",
      "username": "Motinhas27",
      "country": "Espanha",
      "about": "Gosto de carros",
      "profilepicture" : "http://dummyimage.com/145x144.jpg/cc0000/123fff",
      "registrationdate": "https://reevent.io/members/2"
    }
  ]
}

```