

Project name	IT events meetups management system
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1. Short project description (Business needs and system features)		
<p>The <b>IT event meetups management system</b> provides ability to the hosts manage events. In addition to that it allows users to register and be active attending latest events. The system will be developed as a <b>MVC</b> using <b>Tkinter</b> as front-end, and <b>JSON file persistence</b> technologies.</p> <p>The main user roles (actors in UML) are:</p> <ul style="list-style-type: none"> <li>• <i>Anonymous User</i> – can view the information pages and view events and can attend when is registered to the system</li> <li>• <i>Administrator</i>– can manage (create, edit user data and delete) all <i>Registered Users</i>, as well as <i>Events</i>.</li> <li>• Registered user– can sign up to the events with their saved data</li> <li>• <i>Host</i> – type of responsible person who manages own created events</li> </ul>		
2. Main Use Cases / Scenarios		
Use case name	Brief Descriptions	Actors Involved
2.1. Browse information sign up for events	The <i>User</i> can browse the information views (Home, Events, About) in EMMS, and can choose to sign up for event.	All users
2.2. View	<i>Anonymous User</i> can only view events.	<i>Anonymous User</i>
2.3. View and enroll	Registered User can view and enroll events. If he is already enrolled the button for enrolling is not active.	Registered User
2.4. Sign up	<i>Administrator</i> can register new by entering <i>User Data</i> and choosing a Role ( <i>Registered user</i> , <i>Host</i> , or <i>Administrator</i> ). <i>Anonymous user</i> can register account. The assigned role is REGISTERED_USER	<i>Anonymous User</i> , <i>Registered User</i>
2.5. Change User Data	<i>Registered User</i> can view and edit her personal <i>User Data</i> .	<i>Registered User</i> , <i>Administrator</i>

	<i>Administrator can view and edit User Data of all Users and assign them Roles: Registered User, Host, or Administrator.</i>	
<b>2.6. Manage Users</b>	<p><i>Administrator can browse and filter users based on different criteria: first and last name, email, Role.</i></p> <p><i>Administrator can choose a User to manage, and can manage the chosen User - edit (using Change User Data UC) or delete.</i></p> <p><i>Administrator can create a new user using Register UC.</i></p>	<i>Administrator</i>
<b>2.7. Manage Events</b>	<p><i>Host can browse Events, add new Event using Add/Edit Event UC, and delete a Event, as well as view the Event Responses for her own Events.</i></p> <p><i>Administrator can browse events of all Hosts, edit and delete them.</i></p>	<i>Host, Administrator</i>
<b>2.8. Add/Edit Event</b>	<i>Host or Administrator can moderate <b>only their events</b> specifies/edits Event meta-data such as: event name, subject, description, event invitation data can follow responses from participants.</i>	<i>Host, Administrator</i>
<b>2.9. Complete Registration Event process</b>	<i>Registered User can enroll event if event is in status "Open for registrations"</i>	<i>Registered User</i>
<b>2.10. Receive invitation to the participant calendar</b>	<i>Registered User can click to add the event with place/link date and time of the event directly to their calendar</i>	<i>Registered User</i>

<b>3. Main Views</b>	
<b>View name</b>	<b>Brief Descriptions</b>

<b>3.1. Home</b>	Presents the introductory information for the purpose of the system as well as detailed instructions how to start using it. Prominently offers ability to register.
<b>3.2. Events</b>	Presents events available according to <i>User's Role</i> and identity. Offers abilities to create, read, update, delete (CRUD) <i>Events</i> .
<b>3.3. Event Details</b>	Provides ability to enter/edit Event details for individual <i>Group of people</i> . <i>Presents chosen Event and has action button for registration to event.</i> <i>Provides ability to browse event responses of the particular event</i>
<b>3.4. User Data</b>	Presents ability to view and edit personal <i>User Data</i> , as well as deregister from <i>EEMS</i> .
<b>3.5. Users</b>	Presents ability to manage (CRUD) <i>Users</i> and their <i>User Data</i> (available for <i>Administrators</i> only, as described in UCs).
<b>3.6. About</b>	Presents information about the <i>EMMS</i> project and his owner.

## 4. Domain object description

4.1 All **Users** should have following common attributes:

package UserManagment

- id - (generated automatically) - long number;

- first\_name - string 2 to 70 characters long;
- last\_name - string 2 to 70 characters long;
- email - should be valid email address, unique within the system, cannot be changed;
- password
- bio - string 2 to 255 characters long;
- is\_active – bool default True

4.2 Each **Role** has the following structure: .

package UserManagment

- name -enumeration including “Admin”, “Host”, “ Guest”

4.3 Each **Group** has the following structure:

package GroupManagment

- id - (generated automatically) - long number;
- name - string 2 to 100 characters long;
- description - string 2 to 255 characters long;

4.4 Each **Event** has the following structure:

package EventManagment

- id - (generated automatically) - long number;

- name - name - string 2 to 70 characters long;
- description - string 2 to 255 characters long;
- creation\_date - date
- creation\_user\_id – long number
- registration\_end\_date – registration end date of the event
- start\_datetime – start date of the event
- end\_datetime – end date of the event
- place - string 2 to 255 characters long or url format;
- is\_public - bool
- capacity - int
- price – float value
- status\_id binded with event status

4.5 Each **AllowedEventGroup** has the following structure:

package GroupManagment

- has\_a (relationship) event\_id long number;
- has\_a (relationship) group\_id long number;

4.6 Each **EventInvitation** has the following structure:

package EventManagment

- has\_a (relationship) event\_id long number;
- has\_a (relationship) user\_id long number;
- sent\_date – invitation sent date
- has\_a (relationship) invitation\_response\_id long number;
- text\_response - string 2 to 255 characters long
- response\_date – invitation response date

4.7 Each **InvitationResponseType** has the following structure:

package EventManagment

- name - enumeration including “Accept”, “Reject”, “Maybe”

4.8 Each **EventTicket** has the following structure:

package EventManagment

- has\_a (relationship) event\_id long number;
- has\_a (relationship) owner\_id long number;
- is\_paid – bool default False
- paid\_date timestamp

4.9 Each **EventStatus** has the following structure:

package EventManagment

- name - enumeration including “Draft”, “Open to registration”, “ClosedToRegistration”, “Ongoing”, “Past”, “Cancelled”

4.10 Each **EventPost** has the following structure:

package EventManagment

- has\_a (relationship) event\_id long number;
- text- string 2 to 70 characters long
- creation\_date – date of the event post creation
- has\_a (relationship) creation\_user\_id long number – user id of the organizer

## 5. UML diagram of relationships

