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| Project name | IT events meetups management system |

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| 1. Short project description (Business needs and system features) | | |
| The **IT event meetups management system** 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 ***MVC*** using ***Tkinter*** as front-end, and ***JSON file persistence*** technologies.  The main user roles (actors in UML) are:  • *Anonymous User* – can view the information pages and view events and can attend when is registered to the system  • *Administrator*– can manage (create, edit user data and delete) all *Registered Users*, as well as *Events*.  • Guest– can sign up to the events with their saved data  • *Host* – type of responsible person who manages event. | | |
| 1. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| * 1. **Browse information sign up for events** | The *User* can browse the information views (Home, Events, About) in EMMS, and can choose to sign up for event. | All users |
| * 1. **Register** | *Anonymous User* can register in the system by providing a valid e-mail address, first and last name, and choosing password. By default all new registered users have G*uest* role.  *Administrator* can register new by entering *User Data* and choosing a Role (*Guest, Host*, or *Administrator*). | *Anonymous User, Administrator* |
| * 1. **Change User Data** | *Registered User* can view and edit her personal *User Data*.  *Administrator* can view and edit *User Data* of all *Users* and assign them *Roles*: *Guest, Host*, or *Administrator*. | *Registered User , Administrator* |
| * 1. **Manage Users** | *Administrator* can browse and filter users based on different criteria: first and last name, email, Role.  *Administrator* can choose a *User* to manage, and can manage the chosen User - edit (using Change User Data UC) or delete.  *Administrator* can create a new user using *Register UC*. | *Administrator* |
| * 1. **Manage Events** | *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*.  *Administrator* can browse events of all Hosts, edit and delete them. | *Host, Administrator* |
| * 1. **Add/Edit Event** | *Host* or *Administrator* specifies/edits *Event* meta-data such as: event name, subject, description, and tags. | *Host, Administrator* |
| * 1. **Add/Edit EventInvitation** | *Host* or *Administrator* specifies/edits Event Invitation and can follow responses from guests. | *Host, Administrator* |
| * 1. **Complete Registration Event process** | *Guest can enroll event if event is in status “Open for registrations”* | *Guest* |
| * 1. **Receive invitation to the guest calendar** | Guest can click to add the event with place/link date and time of the event directly to their calendar | *Guest* |

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| 1. Main Views | |
| **View name** | **Brief Descriptions** |
| * 1. **Home** | 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. |
| * 1. **Events** | Presents events available according to *User's Role* and identity. Offers abilities to create, read, update, delete (CRUD) *Events*. |
| * 1. **Event Details** | Provides ability to enter/edit Event details for individual  *Group of people*. |
| * 1. **Enroll Event** | Presents chosen Event and has action button for registration to event. |
| * 1. **List of completed registrations for the event** | Provides ability to browse event responses of the particular event |
| * 1. **User Data** | Presents ability to view and edit personal *User Data*, as well as deregister from *EEMS*. |
| * 1. **Users** | Presents ability to manage (CRUD) *Users* and their *User Data* (available for *Administrators* only, as described in UCs). |
| * 1. **About** | Presents information about the *EMMS* project and his owner. |

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| 1. Top level entities |

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

* 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;
* bio - string 2 to 255 characters long;
* is\_active – bool default True

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

* id - (generated automatically) - long number;
* name - string 2 to 100 characters long;
* description - string 2 to 255 characters long;
* role\_type – enumeration including “Admin”, “Host”,” Guest”

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

* name - string 2 to 100 characters long;
* description - string 2 to 255 characters long;

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

* event\_name - name - string 2 to 70 characters long;
* event\_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 **EventInvitation** has the following structure:

* event\_id – long number
* user\_id– long number
* sent\_date – invitation sent date
* invitation\_response\_id
* text\_response - string 2 to 255 characters long
* response\_date – invitation response date

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

* id – long number
* name - string 2 to 70 characters long
* response\_type – enumeration including “Accept”, “Reject”, “”Maybe”
* invitation\_response\_id
* text\_response
* response\_date

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

* id – long number
* owner\_id – long number
* is\_paid – bool default False
* paid\_date

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

* id – long number
* name - string 2 to 70 characters long
* event\_status – enumeration including “Draft”, “Open to registration”, “ClosedToRegistration”, “Ongoing”, “Past”, “Cancelled”

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

* id– long number
* text- string 2 to 70 characters long
* creation\_date – date of the event post creation
* creation\_user\_id – user id of the organizer