**USE CASE 1:**

Name:

Create new account in the system.

Description:

The purpose of this use case is to create new credentials for a first time user. These credentials would then be saved onto the system. Creating a new account would then redirect the user to the main interface.

Actors:

New user – wants to register with the system.

User manager – records user into database and ensures correct credentials?

Preconditions:

Login page presented.

User selects to register with the system.

Postconditions:

User is logged in and registered to the server.

Session has started.

Main Success Scenario:

1. User initializes the application
2. User is navigated to the login page.
3. User selects to register with the server.
4. User is then redirected to the new user interface.
5. User enters new credentials (user id, email, password twice for verification).
6. System then registers the id if no duplicate id or email is found and starts the session.
7. System displays session

Alternate Flow:

6a. Duplicate id is found

1. System logs the incorrect attempt.
2. The system notifies the user of this issue and asks the user to enter different username.

6b. Verification password does not match.

1. The system notifies the user of this issue and asks the user to re enter both passwords.

6c. Duplicate email found in the system.

1. The system notifies the user of this issue and asks for an alternate email.

**USE CASE 2:**

Name:

User logs in to System.

Description:

To ensure only recorded and authorized users with correct credentials are provided their session.

Actors:

User – Wants to get access to the system.

System – Ensures that the correct credentials are entered

Preconditions:

Login page is presented.

Postconditions:

User is logged in and session is established

Main Success Scenario:

1. User initializes applications
2. User is navigated to the login page
3. User enters login credentials
4. System checks credentials, gives access to the user, and brings up user specific session.
5. System displays session.

Alternate Flow:

4a. User id is incorrect

1. System logs incorrect attempt
2. System visually notifies user of incorrect attempt and asks for correct credentials on login page.

4b. User password is incorrect

1. System logs incorrect attempt
2. System visually notifies user of incorrect attempt and asks for correct credentials on login page.

4c. User account is locked due to too many incorrect attempts

1. System notifies user of locked account and sends user a randomly generated code to their email address for unlocking.

**USE CASE 3:**

Name:

Unlock user account

Description:

Present interface to unlock user account.

Actors:

User – wants to unlock account

User Manager – parses the database for the user-entered email.

Preconditions:

User has attempted too many incorrect logins and results in the account being locked.

Postconditions:

Email has sent.

Main Success Scenario:

1. User selects unlock account in login page.
2. User inputs email address
3. User receives email address and inputs the given code
4. The code is verified by system and unlocks the account.
5. The user is then redirected to the login page

Alternate Flow:

4a. Code is incorrect and the user is visually notified

1. System keeps track of incorrect attempts

4b. Code is incorrect and user has exhausted given attempts

1. System generates another code and sends to email
2. System visually notifies the user of this change

**USE CASE 4:**

Name: Create Task

Description:

To create a new task for the user.

Actors:

User – wants to create a new task

**Task manager? –** saves tasks and metadata.

Preconditions:

User has started session with a registered account

Main success scenario:

1. User creates a new task by selecting “create task” in the main interface
2. Task manager saves the task under the appropriate time.
3. Meta data is entered
4. Task is saved.

Alternate Flow:

4a. User decides to cancel the new task.

1. User scrolls to the bottom and selects “cancel”
2. “Are you sure?” prompt is displayed by the system.
3. The task manager deletes the new task
4. User is returned to the main interface.

**USE CASE 5:**

Name: View Task

Description:

To view meta data related to a particular task.

Actors:

User – wants to view information related to a certain task

**Task manager? –** retrieves information and displays it to the user.

Preconditions:

User has started a session with valid credentials

User has tasks already entered into the database.

Main success scenario:

1. User selects the desired task to view
2. The System checks the task manager and retrieves data and displays it to the user.

Alternate Flows:

None

**USE CASE 6**

Name: Edit Task

Description:

Change data related to a specific task

Actors:

User – wants to change information related to a certain task

**Task manager? –** updates information based on user changes

Preconditions:

User has started a session with valid credentials

User has tasks already entered into the database.

Main success scenario:

1. User selects the desired task to edit
2. The System checks the task manager and retrieves data and displays it to the user.
3. User selects the option to edit and alters information.
4. User selects the save option

Alternate Flows:

4a. User decides to cancel all changes and selects the cancel option.

**USE CASE 7**

Name: Create Category

Description:

To create categories to sort tasks into

Actors:

User – wants to sort tasks by categories

**Task manager? –** updates tasks with category information

**System –** keeps track of different categories available

Preconditions:

User has started a session with valid credentials

Main success scenario:

1. User selects the option to create a new category.
2. Category is created and added to the system
3. **Category can be changed by editing task information**\*

Alternate Flows:

None

**USE CASE 8**

Name: Delete Category

Description:

To delete existing categories from the system.

Actors:

User – wants delete existing categories.

**Task manager? –** updates tasks with category information

**System –** keeps track of different categories available

Preconditions:

User has started a session with valid credentials

User has previously created a custom category to delete.

Main success scenario:

1. User selects the option to delete a category
2. Buttons appear next to each category
3. Selecting them will prompt the user to confirm their selection
4. System displays the prompt.
5. The task manager then deletes the category and updates the database.
6. All tasks under the category are moved back to the default category.

Alternate Flows:

None.

**USE CASE 9**

Name: View locations

Description:

To view all task related locations on a map interface.

Actors:

User – wants to sort tasks by categories

**Task manager? –** retrieves locations of all tasks

Map interface – displays a map with all locations marked

Preconditions:

User has started a session with valid credentials

Main success scenario:

1. User selects the option to open the map interface from the main interface.
2. The task manager retrieves all locational data from tasks
3. The map interface displays all locations with a marker.

Alternate Flows:

3a. No tasks exist

1. The map interface does not display any locations

**USE CASE 10:**

Name: Search task

Description:

To search for a task

Actors:

User – wants to search for a particular task

**Task manager? –** retrieves information based on query

System – displays the results

Preconditions:

User has started a session with valid credentials

Main success scenario:

1. User selects the search bar
2. The user types in their query
3. The task manager compares the query with meta data of all tasks
4. The system displays the resulting tasks that had matches

Alternate Flows:

4a. No matches were found and the system displays no results.

**USE CASE 11**

Name: Filter Tasks

Description:

To filter tasks by some criteria

Actors:

User – wants to filter the list of tasks

**Task manager? –** Retrieves information based on filters

System – displays the results

Preconditions:

User has started a session with valid credentials

Main success scenario:

1. User selects the filter option and checks on applicable selections
2. The task manager compares the query with meta data of all tasks
3. The system displays the resulting tasks that had matches

Alternate Flows:

4a. No matches were found and the system displays no results.