**Product Name**

MEEP

* Making Events Even Possible

**Problem Statement**

Often times, people try to organize plans through various messaging apps or word of mouth, only to have the plans be canceled since lack of organization. The web application allows users to collaborate in an organized and stable environment so that events can be carried out. Users will be able to know if there friends are available to hang out, study, or attend events without even needing to contact them beforehand. The web application will keep track of all events in one simple page.

**Objectives**

* Provide a stable platform that allows users to organize events easier.
* Determine friend’s availability with the click of a button.
* The ability to view other people’s schedules in the palm of your hands

**Functional Requirements**

1. The user shall be able to create a new account if he or she does not have an existing an account. If the user has not yet made an account, the user shall be able to log in to his or her existing account.
2. The user shall be able to view their own profiles, as well as other users who have connected as friends. The profile shall include information such as name, username, upcoming events, and friends list.
3. The user shall be able to create events with details such as: event name, date, start time, end time, location.
4. The user shall be able to edit the details of existing events.
5. The user shall be able to view personal events of a particular day. Upon opening, by default, the date shown should be the current date.
6. The user shall be able to compare schedules with a friend and easily view the times which don’t conflict.

**Non-Functional Requirements**

1. User details and event information are stored in databases.
2. The application shall run on browsers that support HTML5.
3. General text and error messages will be displayed in English.
4. User account's passwords are securely stored and encrypted in the database.

**Case Diagram**



**Case Descriptions**

**Name: Log In**

**Goal:** User logs into the web application.

**Actors:** Current User

**Summary:**  Any user can attempt to log in, but will only be successful if they have an existing account and enter the correct information.

**Explanation:**

* Precondition:
  + The user has to be on the home page.
* Trigger:
  + User clicks on the “Log In” button
* Primary Sequence:
  + Web page shows fields of information that user must input
  + The user enters their correct username
  + The user enters the correct password
  + The user clicks on the "Log In" button
  + The web page is now redirected to the default page "Home"
  + *See use case "Display Events"*
* Alternate Sequence:
  + The user did not enter the correct username
    - The webpage displays a message alerting the the user that the username was incorrect
    - The webpage offers for the user to try again
    - The webpage suggests the user to create an new account
  + The user did not enter the correct password
    - The web page prompts the user to try again
* Postcondition:
  + The user is successfully logged in
    - The user can view profiles, events and schedules
  + OR: The user is not logged in
    - The log in dialog is still open
    - An error message is displayed

**Name: View Other User’s Profile**

**Goal:** Display user’s details on a single page.

**Summary:** Display user’s details such as display name, profile picture, friend’s list, and upcoming events.

**Actors:** Current User

**Explanation:**

* Precondition:
  + User must be logged into his/her account.
  + User must be on Profile page.
* Trigger:
  + User selects a friend in the Friend’s list.
* Primary Sequence:
  + Web page displays selected user’s profile page
  + User view upcoming events of the user and user’s friends list.
  + The webpage displays option to compare schedule
    - *See use case "Compare Events"*
* Alternate Sequence:
  + No alternate sequences can be performed
* Postcondition:
  + User is shown profile page and is given option to:
    - Compare schedules with friend
    - Select friend from friend’s list to view his/her profile

**Name: Create Event**

**Goal:** Users are able create an event to display on their schedule

**Summary:** Users can make an event with a location, time, date, and description

**Actors:** The Current User

**Explanation:**

* Precondition:
  + User must be logged into his/her account.
  + User must be on “Calendar” page
* Trigger:
  + The user clicks “+” located at the top of the calendar page
* Primary Sequence:
  + Web page prompts user with the ability to input information
  + The user inputs date of event
  + The user inputs time of event
  + The user inputs location of event
  + The user inputs description of event
  + The user clicks “Create New Event”
* Alternate Sequence:
  + The user did not input date of event
    - Error Message saying that the date of event field was left empty
    - The web page allows the user to rectify the issue by entering a date
  + The user did not input time of event
    - Error Message saying that the time of event field was left empty
    - The web page allows the user to rectify the issue by entering a time
  + The user did not input location for the event
    - Error Message saying that the location field was left empty
    - The web page allows the user to rectify the issue by entering a location
* Postcondition:
  + The user successfully creates an event
  + The event is displayed on the calendar page
  + The event is saved in the database

**Name: Edit Event**

**Goal:** The user should be able to change or edit a previously created event.

**Summary:** A user that is logged in to his or her account should be able to make changes to a previously scheduled event (ex: date, time, title, etc.)

**Actors:** The current user.

**Explanation:**

* Precondition:
  + The user must be logged in.
  + The event must already exist.
* Trigger:
  + The user clicks on the event that they would to edit
* Primary Sequence:
  + The user can change the date, time, location, description of the event
  + The user clicks “Save Changes”
* Alternate Sequence:
  + The user did not input date of event
    - Display error Message saying that the date of event field was left empty
    - The web page allows the user to rectify the issue by entering a date
  + The user did not input time of event
    - Display error Message saying that the time of event field was left empty
    - The web page allows the user to rectify the issue by entering a time
  + The user did not input location for the event
    - Display error Message saying that the location field was left empty
    - The web page allows the user to rectify the issue by entering a location
* Postcondition:
  + The user successfully updates an event
  + The event is displayed on the calendar page
  + The updated event information is saved in the database

**Name: Display Day**

**Goal:** Show user’s planned events on a particular date.

**Summary:** A graphical display of the user's events next to corresponding times is shown on the webpage.

**Actors:** Current User

**Explanation:**

* Precondition:
  + The user must be logged in.
* Triggers:
  + User logs in.
  + OR User clicks on “Calendar” option in the Menu.
* Primary Sequence:
  + Web page displays events and corresponding times for particular date.
  + User views personal events
  + The webpage displays option to compare schedule
    - *See use case "Compare Events"*
* Alternate Sequence:
  + No alternate sequences can be performed.
* Postcondition:
  + User is shown calendar view and is given option to:
    - Log Out
    - Compare schedules with a friend
    - Change the date that is displayed
    - Create a new event
    - Edit existing events

**Name: Compare Events**

**Goal:** A graphical display of user’s schedule and selected friend’s schedule shown on the webpage.

**Summary:** The user is able to display their schedule with a selected friend’s schedule to make comparisons for a specific time and day.

**Actors:** Current User

**Explanation:**

* Precondition:
  + User must be logged into his/her account.
  + Be on the profile of the user they want to compare with
* Trigger:
  + User clicks “Compare” button
* Primary Sequence:
  + User selects friend to compare schedules with
  + User views their own personal events as well as their friends
  + Web page highlights when user and their friend have the same open time spots
* Alternate Sequence:
  + No alternate sequences can be performed.
* Postcondition:
  + User is shown calendar view and is given option to:
    - Change friend that is displayed
    - Change the date that is displayed
    - Create a new event
    - Edit existing events
    - Log Out