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Group: L1

Key Domain: Health and Enabled Ageing

A. Project Title

SafeMeet

B. Background

Planning an event usually requires a lot of factors like weather conditions, environmental safety, number of participants and most importantly effective communication. Not to mention when problems arise, we have to notify the other event goers which makes the process take more time. This app helps users to find and create events as well as manage those events with no trouble.

C. Objective

The main objective is to allow users to join events or create and manage their own events. There will be a list of publicly created community events, users can join these events and receive notifications based on environmental conditions such as air quality, UV levels or sudden weather changes to help make the process of making events smoother for everyone.

D. Key Functional Features

- **Login/Logout/Registration**
- **View and edit profile**
- **View about us**
- **Create an event**
 - Includes Name
 - Includes Date and Time
 - Includes Event Type
 - Includes if it is public facing or private
 - Includes Number of participants (min/max)
 - User can either click on a Map UI to place a marker or input the location
- **Location Autocomplete System**
 - The system will predict the user's input for the location, and the user can select it.
(Can be done using Google Places API)
- **Notification System**
 - If the event goer is not registered in the app, the organiser can input the event goer's email instead so that he can receive the notification.
 - Notifies all event goers if the event location will face environmental problems
 - If there is forecasted rainfall
 - If the UV level is higher than normal
 - If the PSI level is higher than normal

- Notifies all event goers if the event is coming up
- **Browse all public facing community created Events**
- **Join a public facing community event**
 - Event Organiser has to approve first
- **View past events that the user has attended**
- **Filter events by event type**
- **User can choose between viewing their events using a Map UI(with markers on the event location using google places) or Application UI**

E. Data Source & Storage Methods

- Source
 - LTA Datamall APIs for the environmental data
- Authentication
 - Firebase Authentication
- Data Storage
 - Cloud Firestore Database

F. References

<https://datamall.lta.gov.sg/content/datamall/en/dynamic-data.html> - For Environmental Data

<https://developers.google.com/maps/documentation/places/web-service/place-autocomplete> - API for autocomplete feature