# **Requirement Document**

## Group 2

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## Functional Requirements

## 1. User Registration/Authentication

- Users would be able to create an account and log in securely

## 2. User profile management

- Users would be allowed to update their interests, preferences, location, etc
- Have an option to set/make changes based on your mood (LLM keeps track of that)

## 3. Activity Recommendations

- The app/website should suggest activities based on interests, preferences, location, etc
- Suggestions could cover various types, like entertainment, sports, attractions within the area, etc (integrated with help of database/LLM)

### 4. Real-Time/Up-to-Date Weather integration

- App/website uses live up-to-date weather data to make correct/reasonable activity suggestions
- Provide alternate recommendations when weather is less than ideal

## 5. Location-Based Suggestions

- Use location data to suggest activities/attractions nearby
- User feedback and constant geolocation update allows for improved recommendations

## 6. AI-Powered Suggestions

 AI analyzes the user preferences and requests to provide the best recommendations

## 7. Feedback/Ratings

- Users can rate and give feedback on the activities that was suggested

- App/Website takes those ratings/feedback into account and determines course of action for future recommendations

## 8. Search/Filtering

- Users can search/filter recommendations based on their needs
- Certain needs that must be filter options could be "cheapest, closest, highest rated, etc"

## 9. Bookmarking

- Users have the ability to bookmark/save activity recommendations
- Have an option that allows making a saved list (DB usage, AI can also use that list for future recommendations (?))

## 10. Activity Collaboration/Invites

- Users can have the ability to invite friends to plan activities
- Have a "Group Activity" feature where everyone pitches ideas, then AI could recommend stuff.

## Non-functional Requirements

#### 1. Performance

- App/Website MUST generate a response in <15 seconds
- Should be able to handle multiple user requests at once

#### 2. Scalability

- App/websites MUST support multiple users simultaneously
- Cloud based deployment (eg. Microservices Architecture)

#### 3. Security

- ENSURE secure authentication and encryption of user data
- Make sure key members are private and protected

#### 4. Usability

- Make sure the app/website is USER friendly. Must be able to use on both laptop and mobile

#### 5. Availability

- App/website MUST be running all the time. Maintenance of any system should NOT cause downtime
- Ensure each module is independent of each other so maintenance is easier

#### **User Stories**

#### **General Users**

- 1. As a general user, I want to discover activity recommendations without creating an account, so I can find engaging things to do when I'm bored or looking for new experiences.
- 2. As a general user, I want to be able to input my location so that I receive personalized recommendations in my area.
- 3. As a general user, I want to receive activity recommendations based on weather conditions so that I can prepare for an activity accordingly.
- 4. As a general user, I want to see details about an activity so that I can decide if I want to participate in the activity.
- 5. As a general user, I want to refresh my page so that I can see new recommended activities if I don't like the current selection.
- 6. As a general user, I want to save recommended activities so that I can choose which activities to participate in.
- 7. As a general user, I want to remove activities from my saved collection, so I can keep my list current and focused on activities I'm still interested in pursuing.
- 8. As a general user, I want to be able to share the details of any activity with friends or family.
- 9. As a general user, I want to specify any location anywhere in the world, so I can plan activities for places I intend to visit.
- 10. As a general user, I want to register an account so that I can receive more personalized activity recommendations.

## Registered Users (Same Requests as General User + More)

- 1. As a registered user, I want to log into my account so that I can access my profile and review my profile and activities.
- 2. As a registered user, I want to be able to save, delete, and update my interests so that I don't have to re-enter my interests each time I log in.
- 3. As a registered user, I want to save my favourite activities so I can access them whenever I log in again without needing to re-enter my preferences.
- 4. As a registered user, I want to see when I joined the platform ("Member Since" date), so I can track my membership duration.