Use Cases

Actors: User(s), Activity Data Entry Specialist

Use Cases:
- User creates a profile and indicates their preferences, finds a match and arranges casual meeting in chat
- User posts activity review
- User creates a profile and indicates their preferences, finds a match
- User opens chat and utilizes the activity recommendations in chat to arrange a meeting
- User browses available activities in the activity registry, and looks at the details and reviews
- Activity Data Entry Specialist adds a new activity to the registry and inputs activity details
- Activity Data Entry Specialist updates the details of an activity (e.g. availability details)

- Use case 1
    - Do we include chat room since it's generated automatically?
    - No, because there is a precondition for the chat room to be initiated.

- Step 4 of use case
    - Psychological aspect of accepting/viewing a match

Use Case 1

Name: User matches with another user

ID: UC-1

Description: User looks through a list of recommended users generated by the app which is based on the user information, specifically preferences. The user then swipes or clicks on other user profiles to indicate users that they are interested in matching with. If there is a mutual user match, both users will be notified of their match.

Primary Actor: User (primary)

Supporting Actors: User(s) (secondary)

Pre-Conditions:
- The user must have already successfully created an account (including indication of user information and activity preferences)
- The user must be logged in to the application

Trigger: The *primary user* selects a profile and there is a mutual selection between the *primary user* and *secondary user*.

Normal Course:
1. The *primary user* clicks on "Profile Matching" and enters the profile matching page
2. The application generates a list of recommended *secondary users* and prompts the *primary user* to browse *secondary user* profiles
3. The *primary user* selects a *secondary user* profile that the *primary user* is interested to match with by swiping on the profile.
4. If the selected *secondary user* also swipes on the *primary user*'s profile (indicating their interest), a successful match would occur. The *secondary user* selects profiles through the same process listed above.
5. Both the *primary user* and *secondary user* will be notified of their match through a visual confirmation and a chat room between the users will automatically be initiated by the application.

Alternative Courses:

- The *primary user*'s preferences are too specific such that the app's algorithm fails to provide a recommended list of *secondary users*. The *primary user* will be advised through a visual prompt to either edit their user preferences or to wait for *secondary users* that match their preferences.

- If the *secondary user* does not swipe on the *primary user* (step 4 of normal course), nothing happens and a successful match does not occur. The *primary user* will continue swiping on *secondary user* profiles.

Post Conditions:

Success end condition:

The *primary user* and the *secondary user* will receive a visual confirmation of a successful match. A chat room will be generated to facilitate conversation between the *primary user* and *secondary user*.

Failure end condition (if applicable):

Not Applicable

Exceptions:
No Exceptions

Inputs and Outputs:

Inputs	Source of Input	Outputs	Destination of Output
Geolocation	*Both Users*	List of Recommended Users	Both Users (App)
User Profile Preferences (Profiles interested in)	Both Users	Visual Prompt indicating Match	Both Users (App)

Use Case 2

Name: User posts an activity review

ID: UC-2

Description: After the user has completed an activity, the user chooses to post a review about the aforementioned activity, detailing the contents of their review (texts and images) and what rating the activity gets out of 5. All the information will be stored in the review registry. For each activity, the rating will be averaged out and then displayed to users through the application.

Primary Actor: User (Reviewer)

Supporting Actors: None

Pre-Conditions:
- The user must have already successfully created an account (including indication of user information and activity preferences)
- The user must be logged in to the application

Trigger: The *user (reviewer) must select the activity they wish to review in their list of recommended activities (on the "Recommended Activities" page)*

Normal Course:
1. The *user (reviewer)* clicks on "Recommended Activities" and is presented with a list of their recommended activities.
2. The *user (reviewer)* clicks on the activity they wish to review, entering they activity's "Activity Page"
3. The user (reviewer) then clicks on the Activity Reviews button to be redirected to the "Activity Reviews" page
6. The *user (reviewer)* clicks on the Post a Review button and is then directed to input their information regarding the activity [date that the activity was performed, rating, review and image (optional)]
7. Once the user (reviewer) has completed their inputs, they will then click on the post review button in order to have their review posted and be redirected to the "Activity Reviews' page.

Alternative Courses:

Review Exceeds Word Count Course:
- The *user (reviewer)'s* review exceeds the imposed word limit. Once they click the Post a Review button, they remain on the page and are presented with a visual prompt indicating to them that they have exceeded the word limit and must therefore shorten their review.

Review is Incomplete Course:
- *The user (reviewer)* has forgotten to input their rating out of 5 or date that the activity was performed (mandatory inputs). Once they click the Post a Review button, they remain on the page and are presented with a visual prompt indicating to them that they are required to indicate a rating out of 5 their review can be posted onto the "Activity Reviews" page and recorded in the Review Registry

Post Conditions:

Success end condition:

The *user (reviewer)* is redirected to the "Activity Reviews" page and is presented with a visual prompt saying that their review has been successfully poster

Failure end condition (if applicable):

- User (reviewer) is given notification that their review is incomplete (needs to input a rating out of 5)
- User (reviewer) is given notification that their review has exceeded the word limit

Exceptions:
No Exceptions

Inputs and Outputs:

Inputs	Source of Input	Outputs	Destination of Output
Rating (out of 5)	*User (Reviewer)*	Review Rating	Users (App), Review Registry
Activity Review	*User (Reviewer)*	Activity Review	Users (App), Review Registry
Image/Video Upload	*User (Reviewer)*	Image/Video Upload	Users (App), Review Registry

Issues/Considerations:
- Accessing the activity they want to review should be more intuitive (The user must not need to scroll through their list of recommended activities to find the activity they want to review).
  - Create another user page for saved activities

Use Case 3

Name: User schedules a meeting with their match through chat

ID: UC-3

Description: *Primary user* opens the chat function and selects a *secondary user* to chat with. The *secondary user* is someone the *primary user* has successfully matched with. The *primary user* utilizes the in-chat activity recommendation feature to schedule a meet-up with the *secondary user* to perform an activity together.

Primary Actor: User (primary)

Supporting Actors: User(s) (secondary)

Pre-Conditions:
- The user must have already successfully created an account (including indication of user information and activity preferences)
- The user must be logged in to the application
- The user must have gotten a successful match with another user (*primary user* matches with *secondary user*)

Trigger: The *primary user* selects the chat function and selects a chatroom of a *secondary user* of their choice.

Normal Course:
1. The *primary user* clicks on "Chat" and enters the chat page
2. The application provides a list of chat rooms with *secondary users* that the *primary user* has successfully matched with (see UC-1).
3. The *primary user* selects a chat room.
4. The *primary user* selects "Recommended Activities" within the chat room.
   a. The application provides the *primary user* and the *secondary user* a list of recommended activities based on both users' activity preferences and geolocation information.
5. The *primary user* and *secondary user* discuss their preferred activities in the chat.
   a. The application sends a notification to either user whenever their counterpart sends a chat in the chat room. This prompts the users to answer the chat.
6. Both the *primary user* and *secondary user* agree on an activity to do together.

Alternative Courses:

- <Step 4> Either user's activity preferences are too specific such that the app's algorithm fails to provide a recommended list of activities. Both users will be advised through a visual prompt to edit their user preferences.

- <Step 4> Either user's locations do not correspond to any available activity. The application displays an error message to both users.
- <Any step> The *primary/secondary user* decides to terminate the match with their counterpart by selecting the chat room's options, and selecting "Delete Match". The application will prompt the user to confirm their decision. If the user proceeds with unmatching their counterpart, the application notifies their counterpart and disables the chat room.

Post Conditions:

Success end condition:

The *primary user* and the *secondary user* successfully schedules a meetup to do their outdoor activity of choice.

Failure end condition (if applicable):

The *primary/secondary user* decides to terminate the match with their counterpart and the system notifies the counterpart. The chat room is disabled by the system.

Exceptions: No exceptions

Inputs and Outputs:

Inputs	Source of Input	Outputs	Destination of Output
Activity suggestions	Recommended Activities process	List of activities	User
Chat messages	Both users	Chat record	Chat registry
Chat message history	Chat registry	Chat messages	User

Use Case 4

Name: User browses activities and looks at reviews

ID: UC-4

Description: *Primary user* opens the Activity List, which provides a list of recommended activities according to the *primary user*'s activity preferences and geolocation. *Primary user* selects activities to read their reviews. All activities were inputted by the Activity Data Entry Specialist while the reviews were posted by *secondary users*.

Primary Actor: User (primary)

Supporting Actors: User(s) (secondary); Activity Data Entry Specialist

Pre-Conditions:
- The user must have already successfully created an account (including indication of user information and activity preferences)
- The user must be logged in to the application

Trigger: The *primary user* selects the Activity List and selects an activity to read its reviews.

Normal Course:
1. The *primary user* clicks on "Activity List"
2. The application provides a list of recommended activities based on the *primary user*'s activity preferences and current geolocation.
3. The *primary user* scrolls through the list and selects an activity of interest.
4. The application displays the activity's information and reviews to the user.

Alternative Courses:

- <Step 2> The *primary user*'s activity preferences are too specific such that the app's algorithm fails to provide a recommended list of activities. The app will show a visual warning to prompt the *primary user* to edit their user preferences.
- <Step 2> The *primary user*'s geolocation does not correspond to any available activity. The application displays an error message to the *primary user*.
- <Step 4> No *secondary user(s)* have posted a review for the selected activity. In this case, the application simply displays an error message under the activity's review section explaining that no reviews are available.

Post Conditions:

Success end condition:

The *primary user* reads the details and reviews of their selected activity.

<u>Failure end condition (if applicable):</u>

Not applicable

Exceptions: No exceptions

Inputs and Outputs:

Inputs	Source of Input	Outputs	Destination of Output
Activity preferences	Profile registry	Activity suggestions	User
Geolocation	*Primary user*	Activity suggestions	User
Activity information	Activity Data Entry Specialist	Activity information	User
Activity reviews	*Secondary user*	Activity review	User

Use-Case Diagram