# Use Cases

## The requirement of user registration

**Functional description**

In this function, user can sign up to use the application. In order to register successfully, user should provide his user name, password and email.

**Precondition**

1. User opens the application successfully.
2. The application has connected the internet successfully.

**Basic event path**

1. User input his user name.
2. User input his password.
3. User input his email address.

**Abnormal path**

1. The user name or email address is already existed in the database.
2. The format of email address is wrong.

**Postcondition**

The user registers successfully. The database in server has the registration information successfully.

## The requirement of user login

**Functional description**

In this function, user can sign in to use the application. In order to use the feature in applications, the user must sign in first.

**Precondition**

1. User opens the application successfully.
2. The application has connected the internet successfully.

**Basic event path**

1. User input his user name and password.
2. User click the login button.

**Abnormal path**

1. The user name is not existed in the database.
2. The password is wrong.

**Postcondition**

The user logs in successfully. The application switch to the map activity.

## The requirement of acquiring notes information

**Functional description**

In this function, user can receive different kinds of notes based on its geographical location.

**Precondition**

1. The application has got user geographical location successfully.
2. The application has connected the internet successfully.

**Basic event path**

1. User clicks button, trying to acquire the notes.
2. The server returns notes for application to display on the screen.

**Abnormal path**

1. The response time is more than 10 seconds.

**Postcondition**

The notes have been displayed on the screen successfully.

## The requirement of posting notes

**Functional description**

In this function, user can post a note on the map. The note can includes texts, photos or voice.

**Precondition**

1. The user logs in successfully.
2. The application has connected the internet successfully.

**Basic event path**

1. The user clicks the post button.
2. The user inputs the texts to post.
3. The user selects the photo, if necessary.
4. The user clicks the finish button.

**Abnormal path**

1. The user inputs nothing in the edit text.

**Postcondition**

The notes have been posted on the map successfully.

## The requirement of replying the notes

**Functional description**

When user see a note on the map, he can reply to it, which will be shown on the reply list.

**Precondition**

1. The user logs in successfully.
2. The application has connected the internet successfully.

**Basic event path**

1. The user clicks the note and the application switch to detail information activity.
2. The user inputs the texts to reply.
3. The user clicks the finish button.

**Abnormal path**

1. The user inputs nothing in the edit text.

**Postcondition**

The notes have been replied successfully.

## The requirement of uploading user profile.

**Functional description**

In this function, the user can upload a user profile to represent himself.

**Precondition**

1. The user logs in successfully.
2. The application has connected the internet successfully.

**Basic event path**

1. The user clicks the button to select a photo
2. The user clicks the finish button.

**Abnormal path**

1. The server doesn’t response.

**Postcondition**

The profile have been updated successfully.

# Diagram

