

ELECTRONIC ASSIGNMENT COVERSHEET



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|-------------------|--------------------------------|
| Unit Code | ICT376 |
| Unit name | Mobile Application Development |
| Enrollment mode | Internal |
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| Assignment number | A2 |
| Assignment name | Assignment two |
| Tutor | Aaron Yeo Sze Wee |

Student's Declaration:

- Except where indicated, the work I am submitting in this assignment is my own work and has not been submitted for assessment in another unit.
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Optional Comments to Tutor:
<https://github.com/tanjunior/ICT376A2TEAM1>

Please insert this completed form into the body of the assignment you submit. Follow the instructions in the Unit Guide about how to submit your file(s) and how to name them, so that the Unit Coordinator knows whose work it is.

A summary describing the project

The application for assignment two is called Photo Diary. The application allows users to upload photos with descriptions to the platform to record their life in a journal form. It helps us for collecting rich memories, not just by photo also by locations.

Design including the class diagram

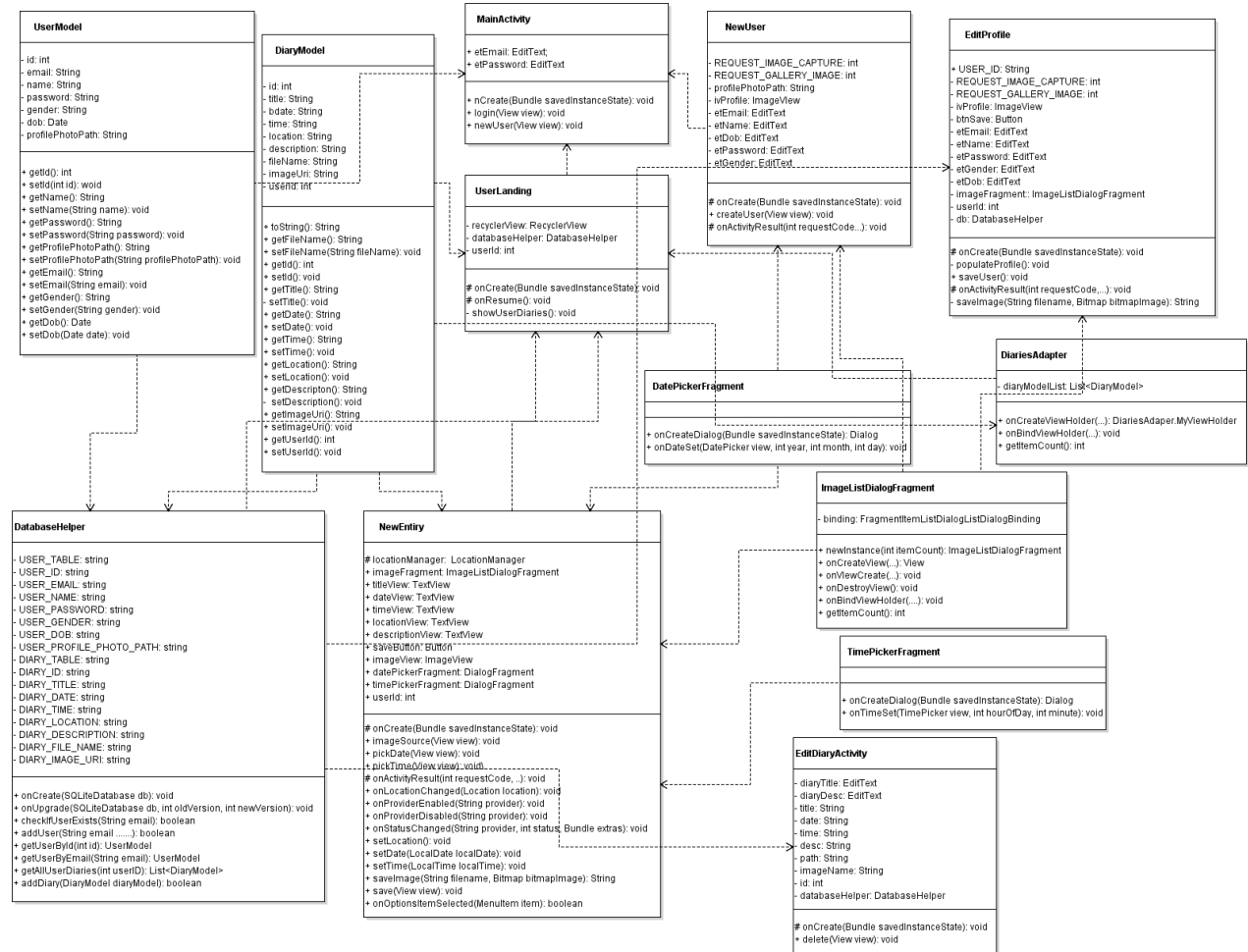


Figure 1 Photo Diary Class diagram

As Figure 1 described when user open the application it shows login page, firstly application will trigger the MainActivity.class. At login page user can register new account and login by their credentials also we provide test account for those users who want to try without signing up.

If user use sign-up page to register a new account, user need to provide their email, name, password, gender, and DOB to sign up. This function will use NewUser.class.

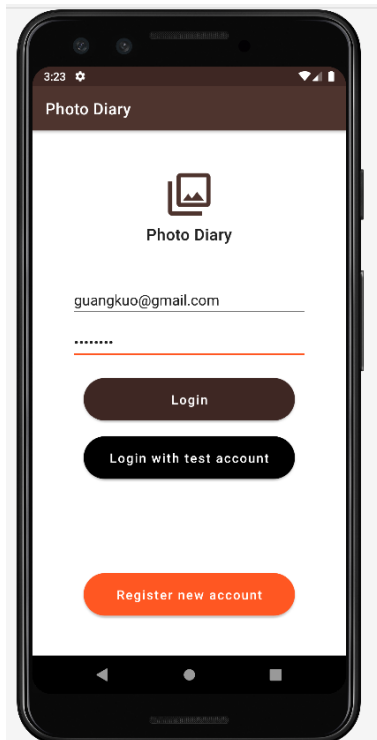
After user signed up, user can sign in. Then user can view diary lists, click one item to see the details and update or delete one diary. Also, in this page user can click add button to add new photo diary.

After user click add button, will go into new Entity page, user can select camera to take a new photo or browser a photo shop to select a photo. At the same time user can add a title, timestamp for the diary if user give this app location services right, our app will record the current location.

Instructions on how to use the software

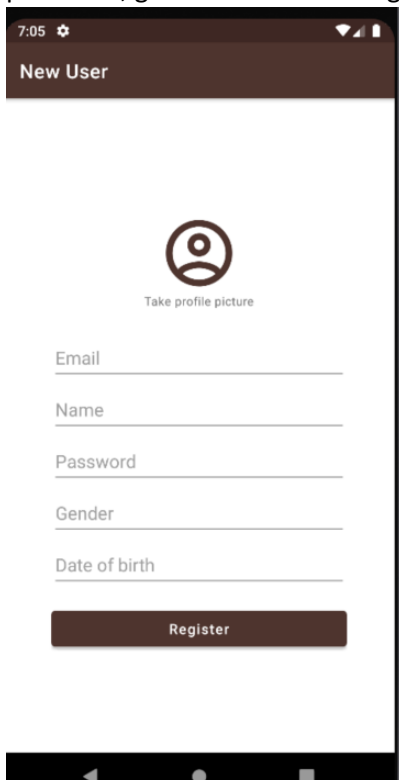
1) Login page,

At login page user can register new account or login by their credentials, also we provide a test account for those user want to try without signing up.



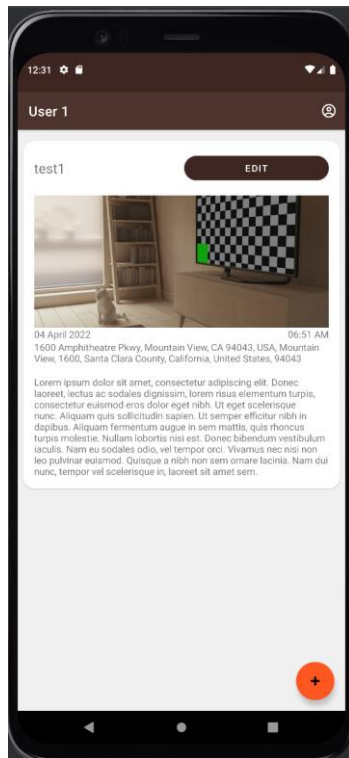
2) New User page

If user use sign-up page to register a new account, user need to provide their email, name, password, gender and DOB to sign up.



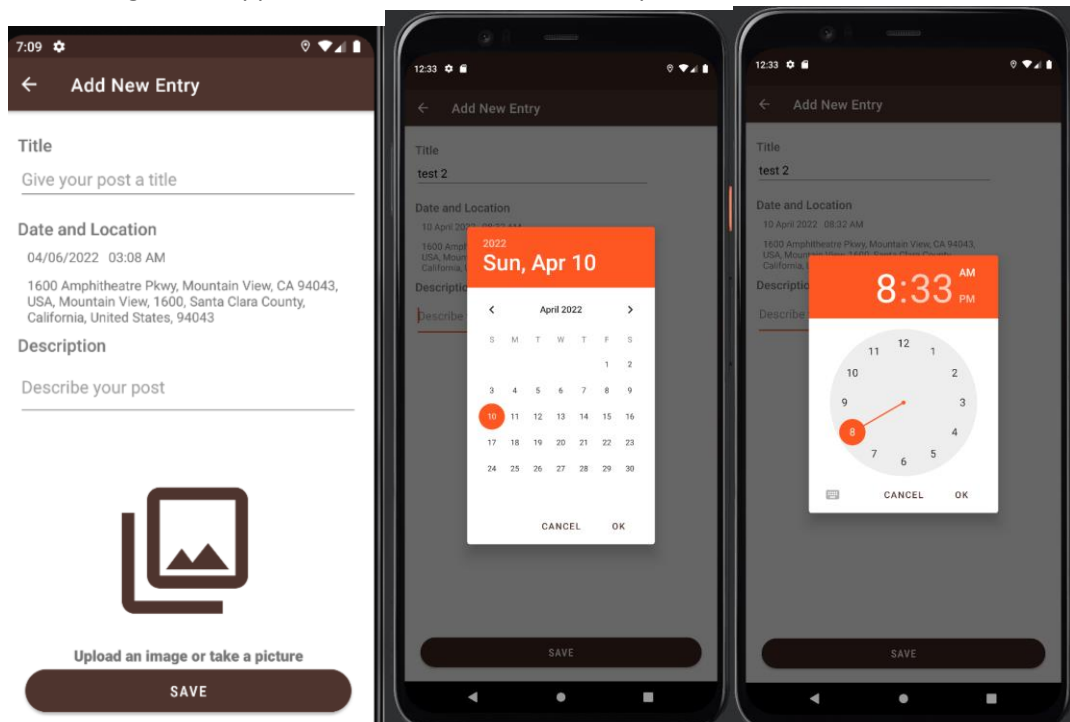
3) User landing page

After use login in, user can view diary lists, click one item to see the details and update or delete one diary. Also in this page user can click add button to add new photo diary.



4) Add new entity page

user can select camera to take a new photo or browser a photo shop to select a photo. At the same time user can add a title, timestamp for the diary if user give this app location services right, our app will record the location of the photo took.



5) Edit photo diary page

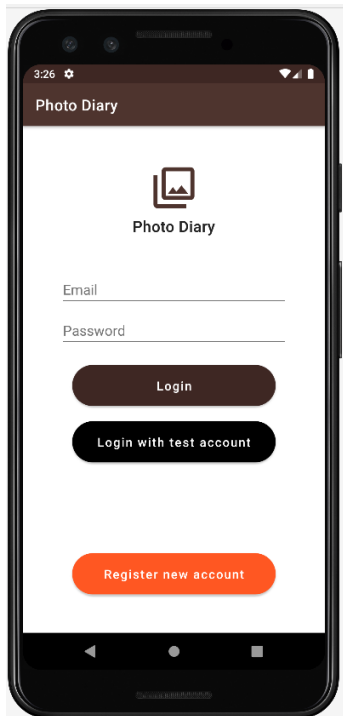
The screenshot shows a mobile app interface for editing a photo diary entry. At the top, there is a status bar with the time 12:25 and a settings icon. Below it is a dark brown header bar with a back arrow and the text 'Photo Diary'. The main content area has a 'Title' label followed by a text input field containing 'like this'. Below that is a 'Description' label followed by a larger text input field. At the bottom of the form, there are two buttons: a red 'DELETE' button and a dark brown 'SAVE' button. The bottom of the screen shows a black navigation bar with three icons: a back arrow, a home circle, and a recent apps square.

6) Edit user profile

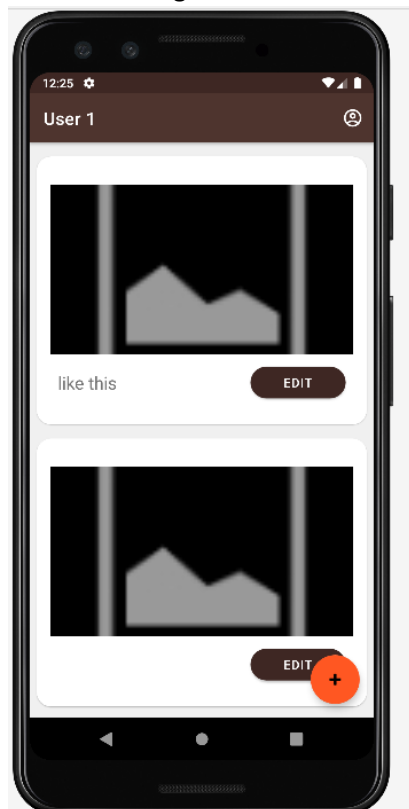
The screenshot shows a mobile app interface for editing a user profile. At the top, there is a status bar with the time 1:25 and a settings icon. Below it is a dark brown header bar with a back arrow and the text 'Edit Profile'. The main content area features a circular profile picture icon with the text 'Take profile picture' below it. Below the profile picture, there are several text input fields: one containing 'guangkuo@gmail.com', one containing 'guangkuo Tian', one with masked characters '*****', one containing 'Male', and one containing '12/11/1989'. At the bottom of the form, there is a dark brown 'Save' button. The bottom of the screen shows a black navigation bar with three icons: a back arrow, a home circle, and a recent apps square.

Sample input-output screenshots to demonstrate all major operations asked

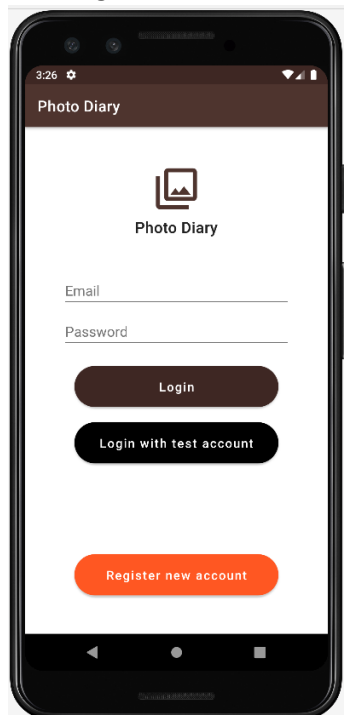
- 1) Login with test account
 - a. Open this application



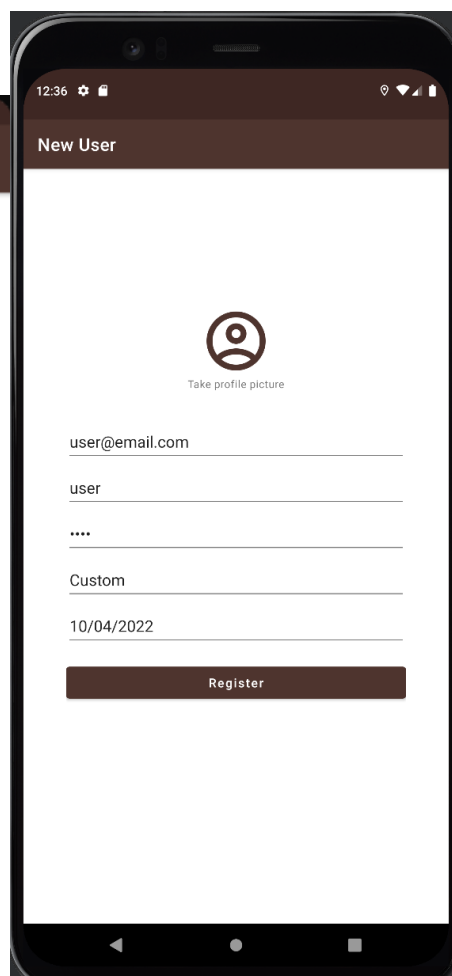
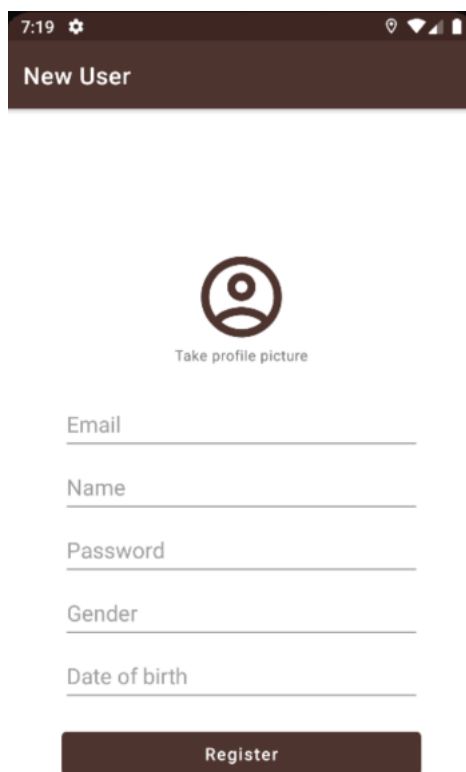
- b. Then click "Login with test account" button, test is ok



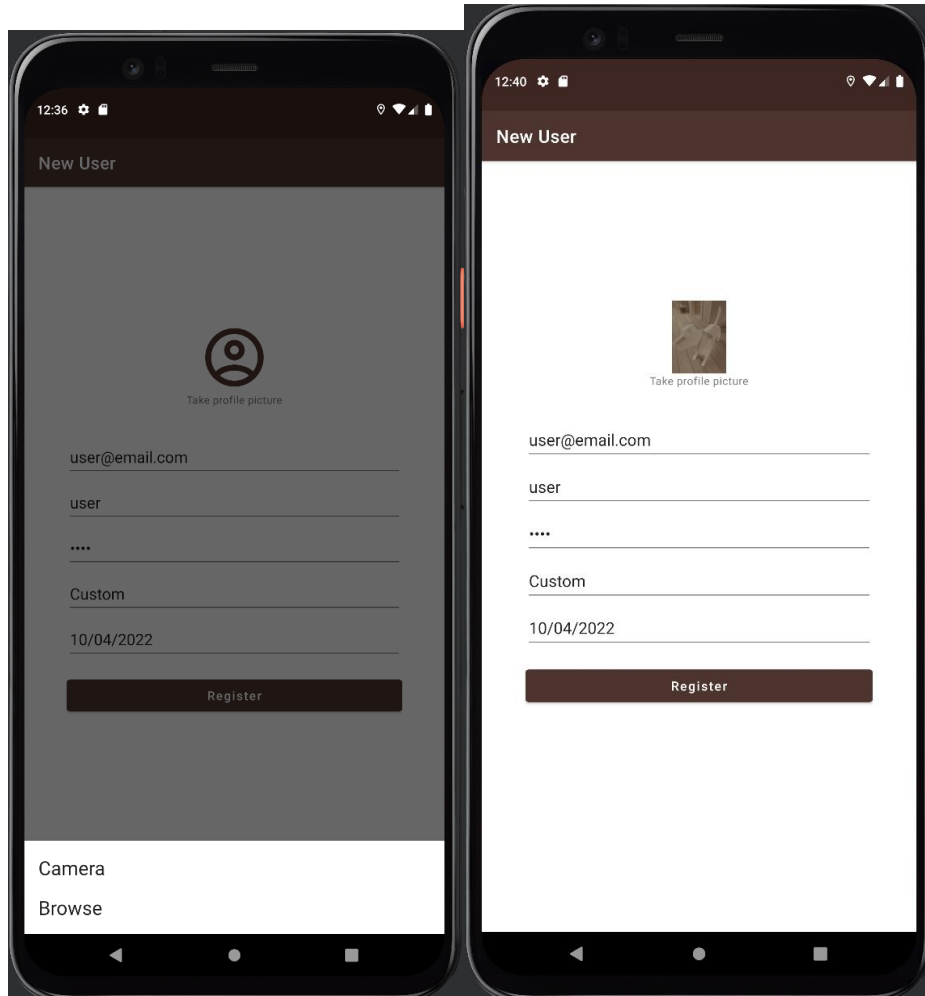
- 2) Register new account
 - a. Click register new account



- b. Input user information

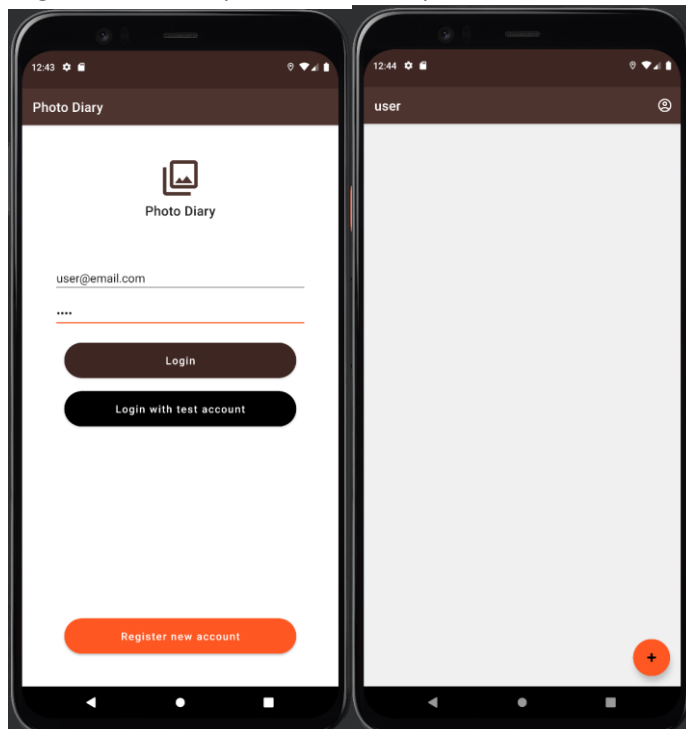


- c. Set a profile picture by Camera or browse phone gallery for image



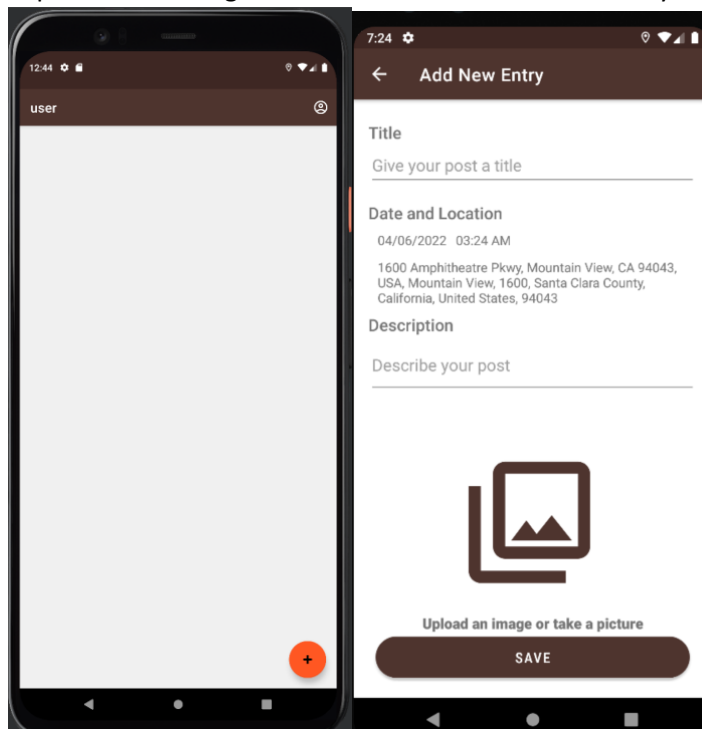
- d. Click on register when you are done
You will receive a toast message saying that user has been successfully created and brought back to the login page.

- 3) Login with user account
 - a) Login with last step username and password

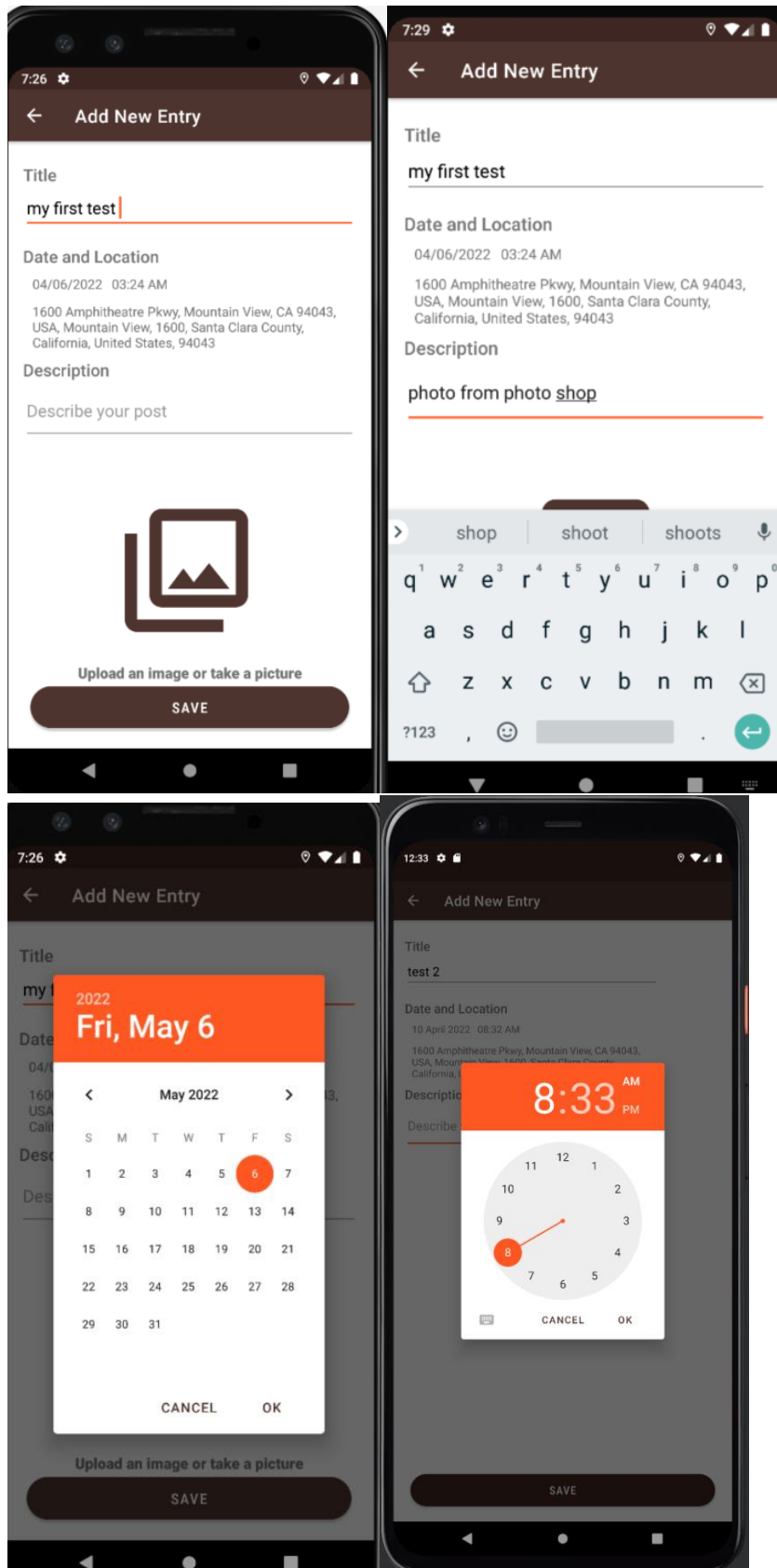


You will be brought to the user landing page on successful login.


- 4) Add new diary
 - a. Tap on the Floating Action Button to create a new Diary Entry




- b. Give it a Title and description, date and time can also be changed



- c. Set a picture by Camera or browse phone gallery for image

7:30 

 Add New Entry

Title

my first test


Date and Location

04/06/2022 03:24 AM

1600 Amphitheatre Pkwy, Mountain View, CA 94043,
USA, Mountain View, 1600, Santa Clara County,
California, United States, 94043

Description

photo from photo shop



Camera

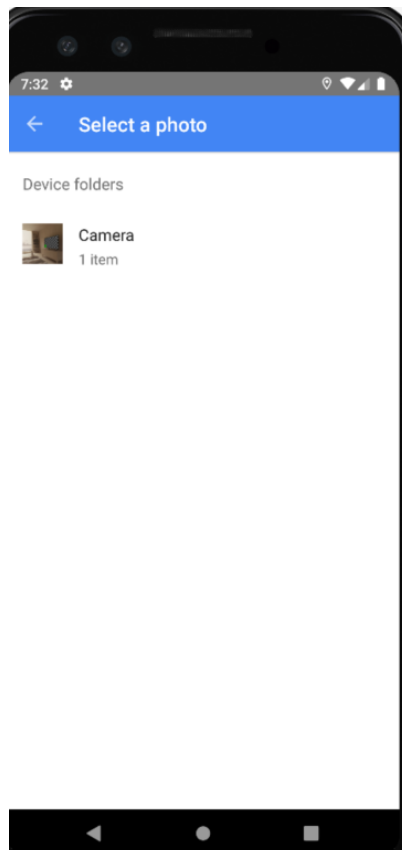
Browse

d.

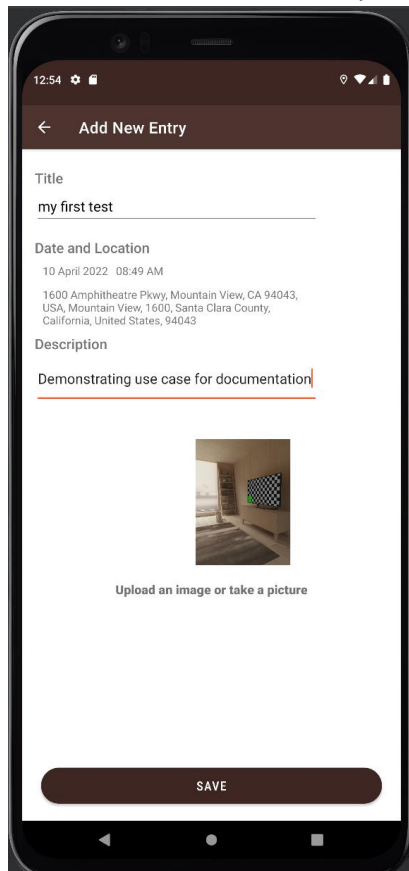
I. Camera



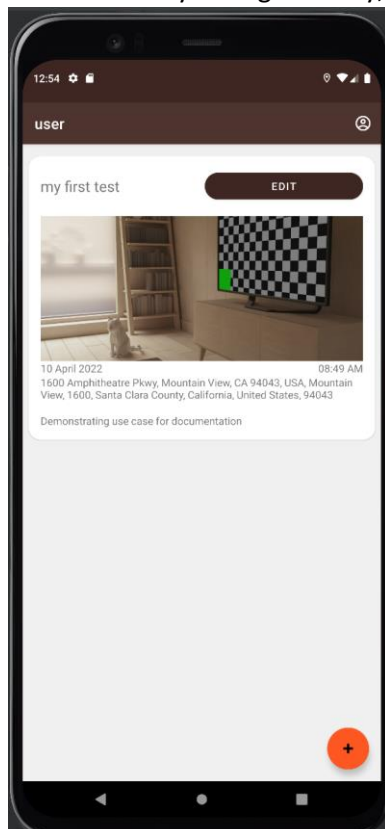
II. Browse



- e. Click save button to save diary.

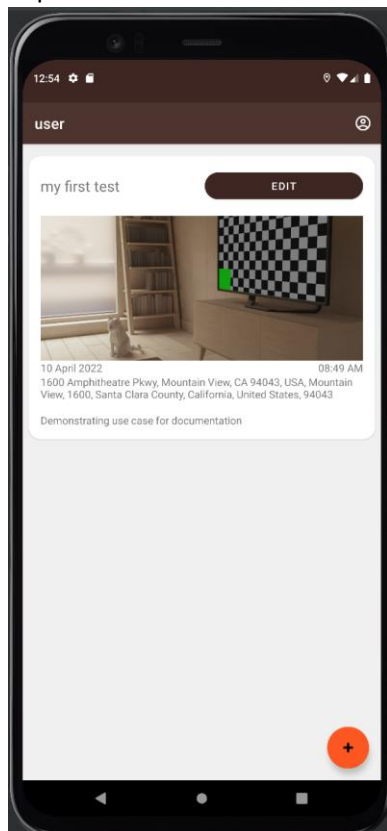


- f. On successfully saving an entry, the app will go back to user landing view.

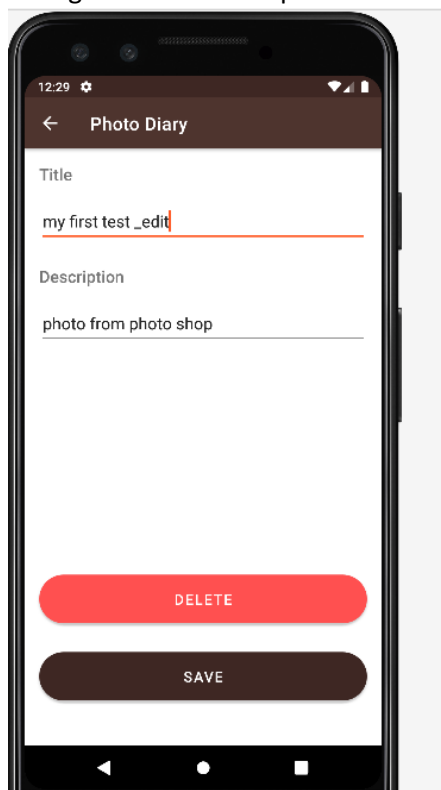


5) Edit diary title and/or description

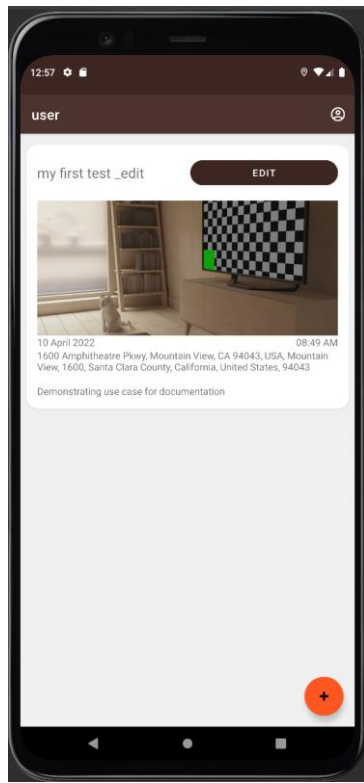
a. Tap on the Edit button



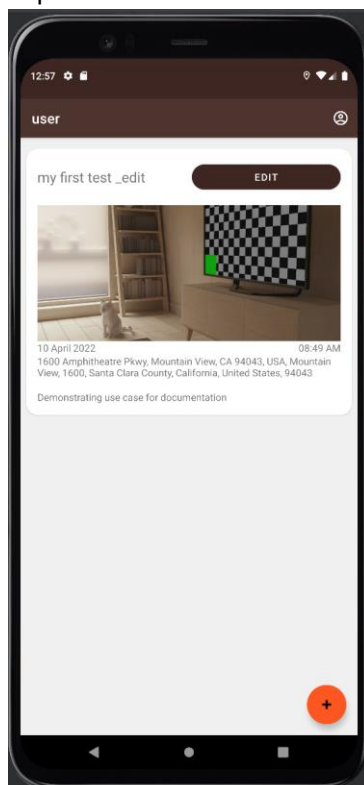
b. Change the title and tap on the save button



- c. On successful saving of diary the app will go back to user landing page. (Do note that pressing back on Edit page will not trigger a save.)



- 6) Delete a diary
 - a. Tap on the edit button



b. Tap on the delete button



c. Click delete button, we can see diary has been deleted.

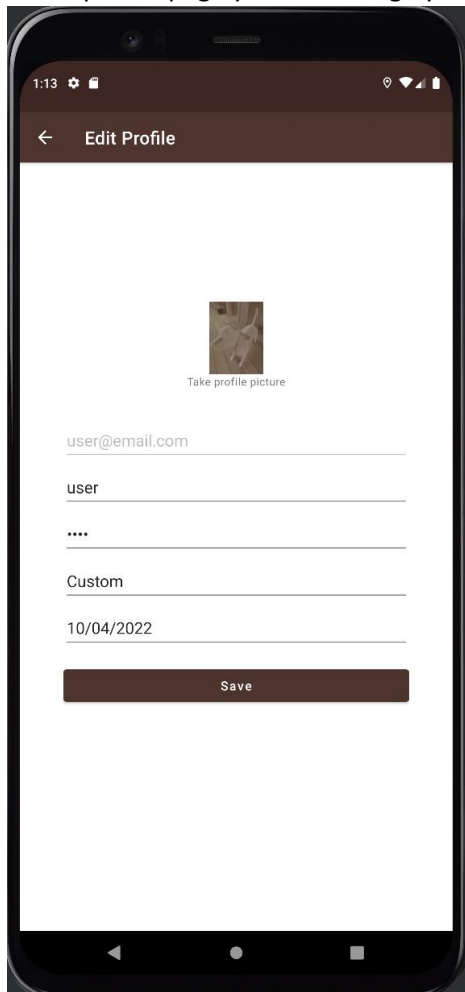


7) Edit user profile

- a. Tap on the user button on the top right-hand corner



- b. In the profile page you can change your details



- c. After changing the username, click save. We can see picture below, username has changed.

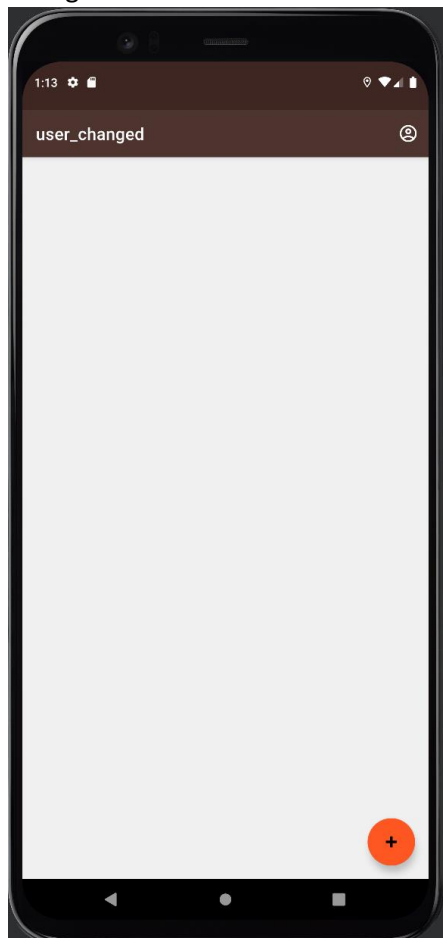


Table 1: Testcase for Photo Diary

| Test Description | Expected output | Outcome – Pass? |
|---|---|---------------------------------------|
| Login Page | | |
| Login with test account | Able to login through test account button | Yes |
| Register new account in new page | Route to register page | Yes |
| Login with registered account | Able to login with registered | Yes |
| Register page | | |
| Set profile picture with camera capture | Able to set profile picture with camera capture | Yes |
| Set profile picture with uploading an image locally | Able to set profile picture with uploading an image locally | Yes |
| Check if email is using the right format | Prompt error message if email does not follow the right format | Yes |
| Check if name is meet minimum requirement | Prompt error message if name does not meet minimum requirement | Partially, require minimum characters |
| Check if password meet minimum requirement | Prompt error message if password does not meet minimum requirement | Partially, require minimum characters |
| Check if data are stored at local database | User account is created and credentials are stored in local database | Yes |
| Home page | | |
| Diary entries displaying | Diary entries displaying in card format | Yes |
| Entries information showing | Entries information such as Title, Description, Image, Location, Date and time is displaying properly | Yes |
| New entry button | Route to New Entry Page | Yes |
| Edit button | Route to Edit Entry Page | Yes |
| User profile button | Route to Edit User Profile Page | Yes |
| New Entry page | | |
| Title and description Input | Able to store a title and description with entry locally | Yes |
| Date and time Input | Able to input date and time and stored locally | Yes |
| Location Input | Able to query user's current location and stored with entry locally | Yes |
| Save entry | Able to save the entry with all input information in local database | Yes |

| | | |
|---|---|---------------------------------------|
| Check if title and description meet minimum requirement | Prompt error message if title and description does not meet minimum requirement | Partially, require minimum characters |
| Check if image is uploaded | Prompt error message if no image is uploaded | No |
| Edit Diary | | |
| Edit Title | Able to modify the title input | Yes |
| Edit Description | Able to modify the title input | Yes |
| Delete entry | Able to delete the diary entry | Yes |
| Save edited entry | Able to update and store the modified diary entry in local database | Yes |
| User Profile | | |
| Profile image change | Able to update and store the new profile image through upload or camera capture | Yes |
| Update password | Able to update a new password for the user account | Yes |
| Update name | Able to update a new name for the user account | Yes |
| Update gender | Able to update a new gender for the user account | Yes |
| Update birthdate | Able to update a new birthdate for the user account | Yes |