

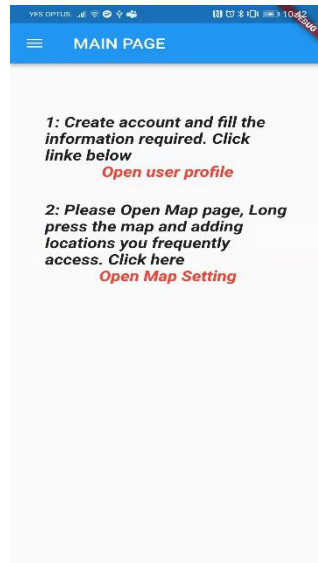
Track APP User Manual

1 Get Started

Download APK from GitHub link for you Android Device. Click APK file and start installing the application. URL:

1.1 User guide

When user firstly launch the Mobile App. The user guide page will display to guide user finish the initial setting before running the App. Click red colour link to start the setting.



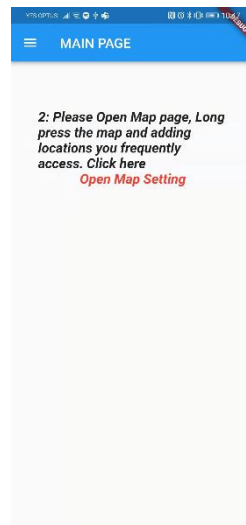
1.2 Edit user information

In the edit user information page, please fill out the form. You will be asked for your Garmin ID, Gender and Number of vehicle and vehicle's type will select from the drop down list.

A screenshot of the 'Profile' page in the Track APP. The page has a blue header with a back arrow icon and the text 'Profile'. Below the header is a form with several input fields. The first field is 'Please Enter Your Name' with a person icon and the text 'parker'. The second field is 'Garmin Account ID' with a person icon and the text 'parker'. The third field is 'Strava Account ID' with a person icon and the text 'parker'. The fourth field is 'Gender' with a dropdown menu showing 'Male' and a female icon. The fifth field is 'Number of Vehicle Owned' with a dropdown menu showing '2' and a car icon. The sixth field is 'Vehicle Type' with a dropdown menu showing 'SUV' and a car icon. At the bottom of the form is a blue 'Save' button.

1.3 Save user profile

When you complete the user information form and press the button “save”, all your information will be stored in a csv file and this file will be uploaded to firebase storage for researchers to use. Once you click “save” button, you will go back to the home page.



2 Visited location

2.1 Adding several visited locations

Once the user finishes filling the user profile, users will be required to add several visited locations. Once the user clicks the link, the app will display a Google map.



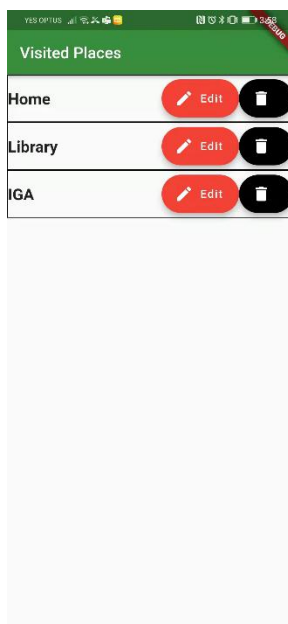
2.2 Long press the screen to add visited place.

User can long press a certain location of the Google map to start adding visited location process. Basic validation check is implemented to ensure the adding location cannot be empty. Once the user clicks “add marker” button, the location will be added and shown on the map page.



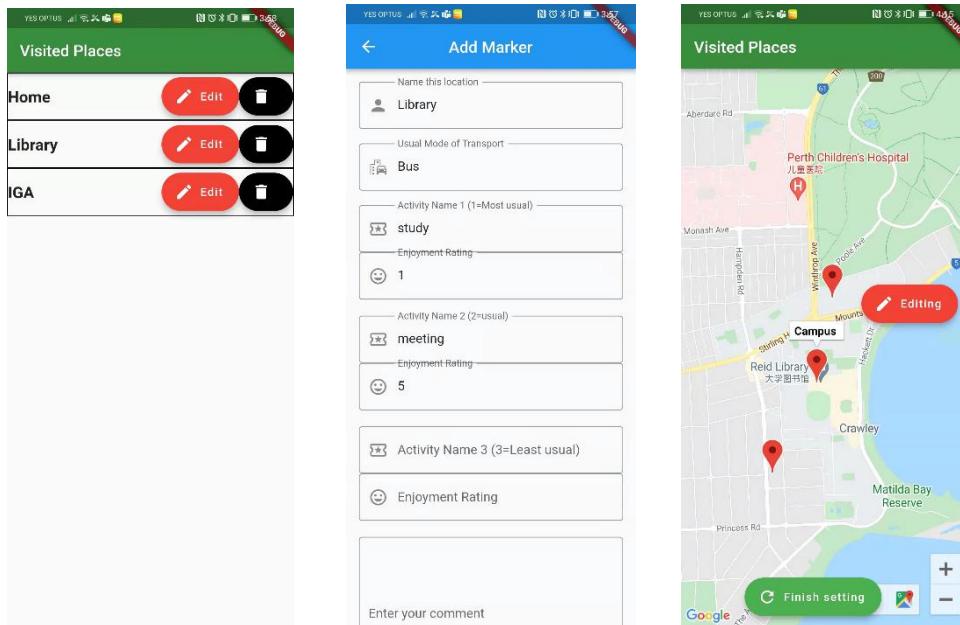
2.3 Editing Visited locations

User can press 'Edit' button on the right-side screen to view the list of visited locations.



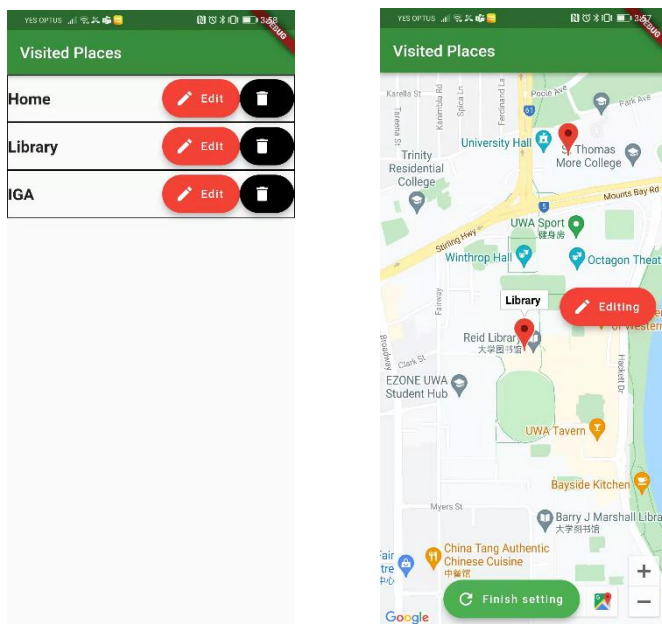
2.4 Edit existing location

User can click Edit button to edit the existing location. By submitting the changes, the location with new attribute will be updated. E.g. if user select Library location. It will display a new form view for user to edit location information. Change the location name to "campus".



2.5 Delete existing location

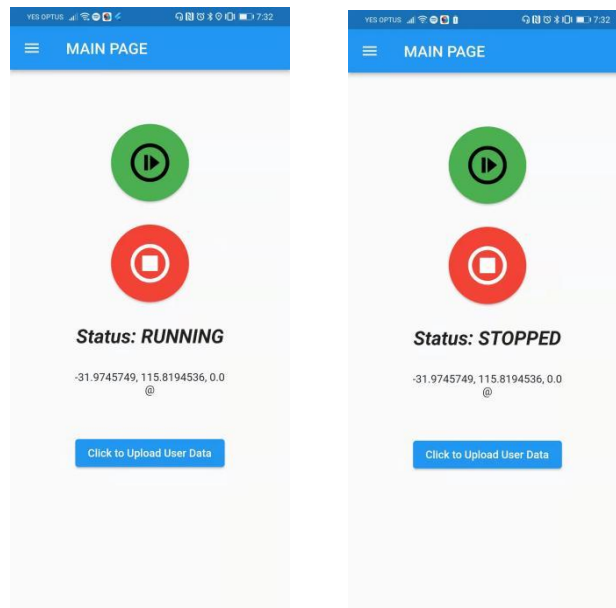
User can click remove button to delete a location. Once click, the location file will remove the location row, and update the location file in the cloud server.



3 How to share data to researchers

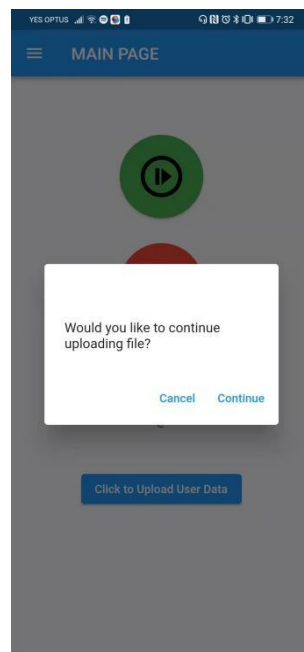
3.1 Automatically sharing your data and uploading data file

In the main page, when you press the green button to collect your location data, the application will be running in the background. Your location data will be written into a file every hour at 0 minute. This file will be automatically uploaded to firebase storage every day at 10 am. After this file is successfully uploaded, it will be deleted in your phone memory, then a new file will be generated to store the data. You can click “red” button to stop the tracking.



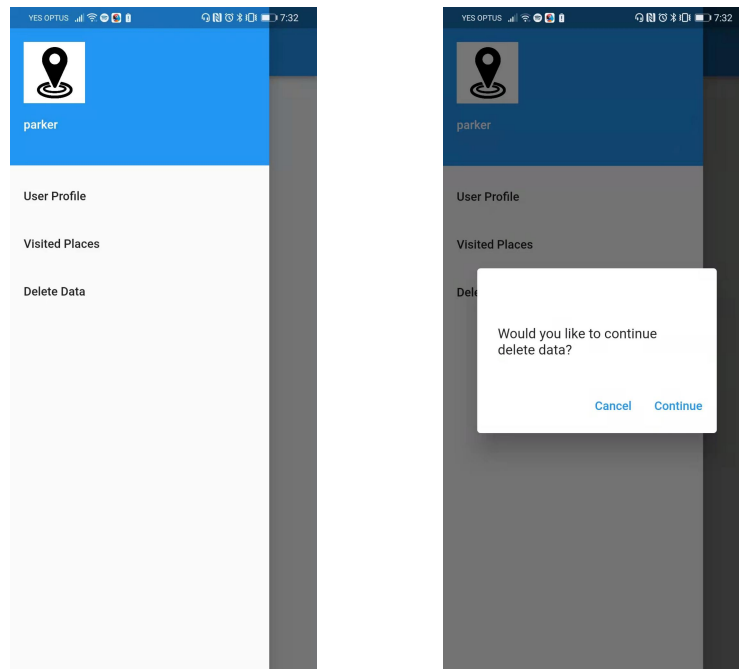
3.2 Manually uploading data to firebase storage

In the home page when you press **“Click to upload user data”** button on the bottom screen. A dialog will pop up to confirm the upload action. Once user click **“continue”** button, the data file will be uploaded to firebase storage immediately. Also user can click **“Cancel”** button to stop this action.



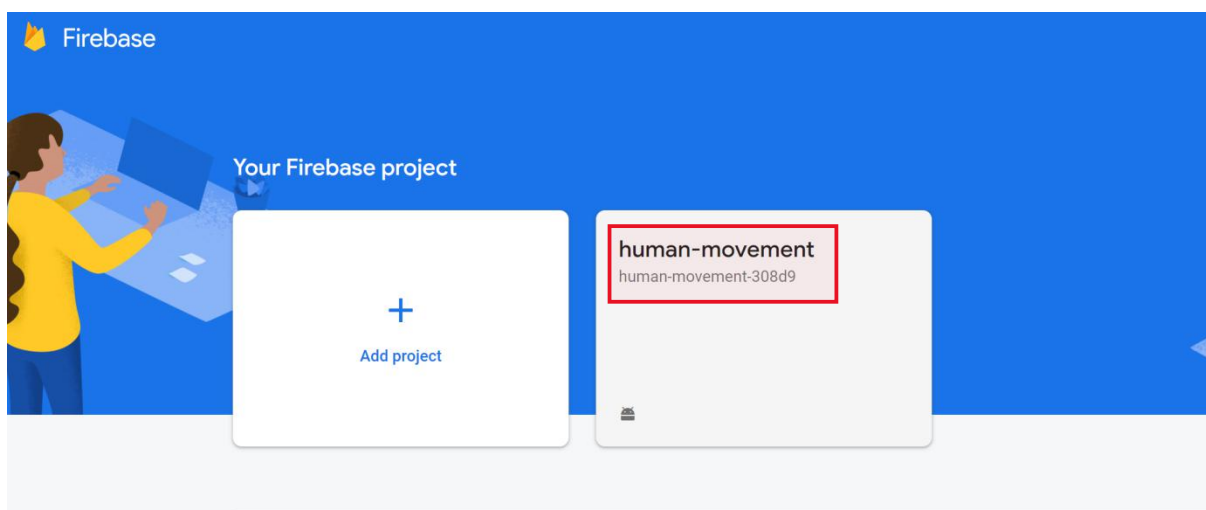
3.3 Manually Delete data from your mobile

Click the menu style button on the top left corner, the app will display menu bar. Click **“Delete Data”** button, the app will display a dialog to allow user to remove user data from mobile. User can click **“Continue”** to delete data, or **“Cancel”** to avoid the delete action.



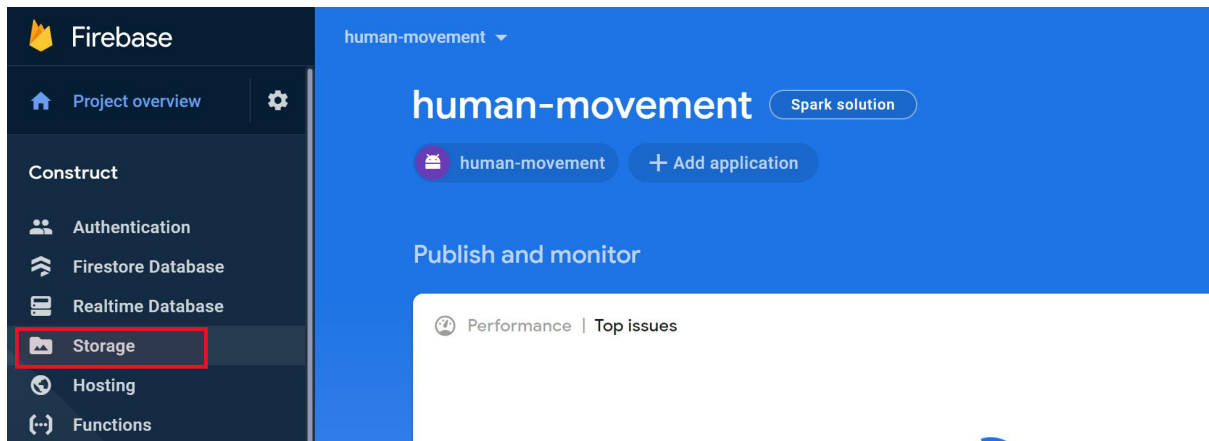
4 Access files in firebase storage – researchers only

If you are an authorized user, you can log in to firebase console <https://console.firebase.google.com/> using your google account. On the dashboard, click on the project human-movement to navigate to the project page.



Dashboard

In the project page, click the **Storage** tab to view the storage of the project.



Click on **Files**, now you can view files from all the participants, and you can select any files and download them.

