



**The Faculty of Information and Communication Technology
Mahidol University**

**Wireless and Mobile Computing
Checkpoint 5**

Presented by

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Section 3

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What does the app do?

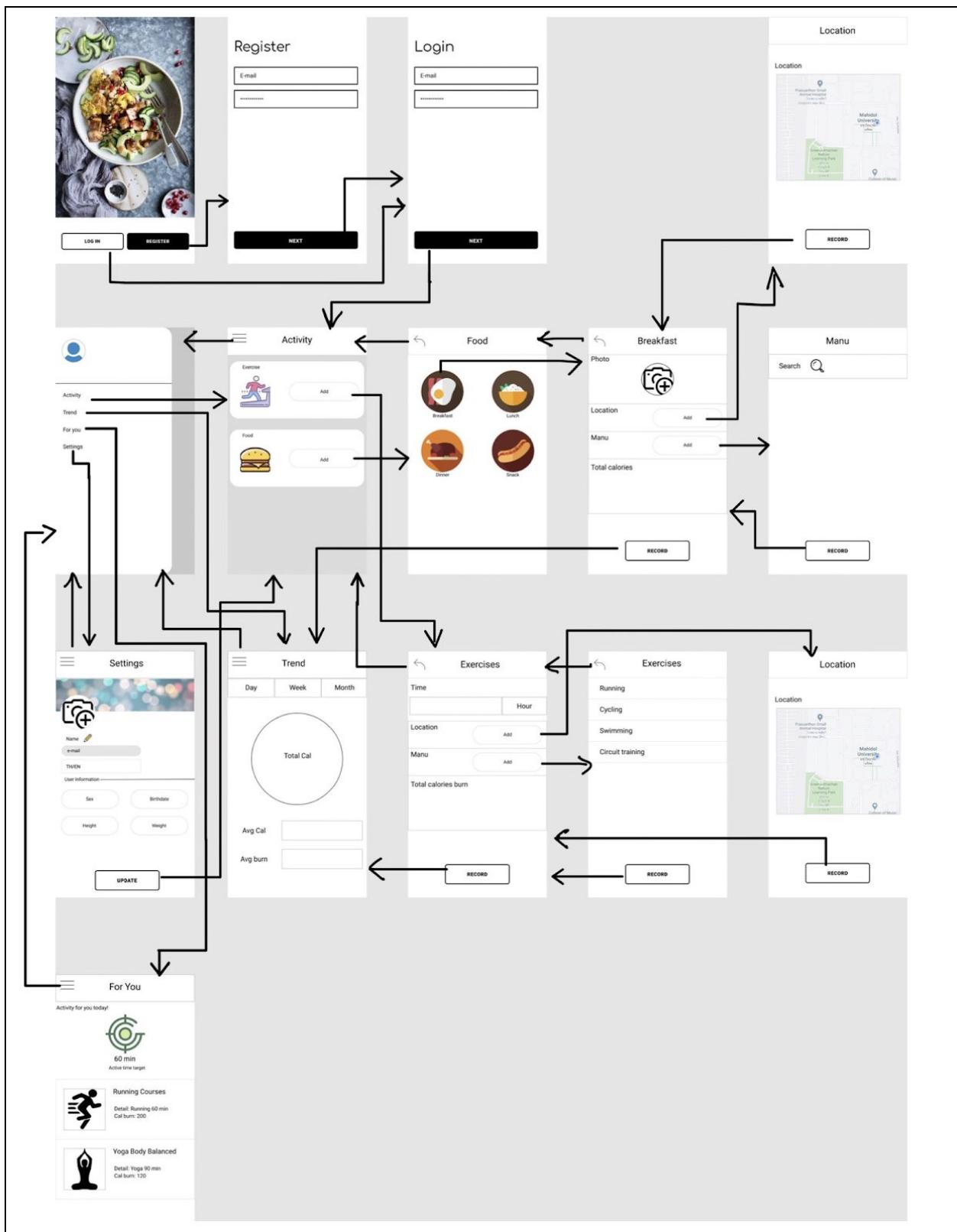
Our application is an eat-burnt diary book for dieting users. In our application, they are able to insert photos of food that they eat by a link to the camera, insert text for search about the menu of food and name of the exercise, and insert location where they eat or do exercise by a link to a google map. This diary book application can store the calories for each activity and calculate the remaining calories for each day, week, and month.

What are the features you plan to implement?

The features that we plan to implement.

1. **Tabs:** We use tabs feature to compile main activities in an application for users to easily access.
 2. **Linking to camera:** This feature used to allow the user to take pictures of their meals.
 3. **Google map:** This feature allows the user to insert where the location they exercise by using the google map.
 4. **Calendar:** Get a calendar to select the year, month, day of each activity.
 5. **RecyclerView and CardView** to show all activity of user.
-
- **Register/Login**
 - **Activity:** Activity is a feature of user activity.
 - **Food:** It is an activity feature that stores about eating activity. Users can select the time of meals such as breakfast, lunch, dinner, and snacks. Furthermore, users can input photos of food by a link to the camera, search the menu of food that they eat, and insert the location where they eat by a link to a google map. Then we calculate and show the total calories that users eat.
 - **Exercise:** An activity about exercise that stores information about how much time that the user does the exercise, insert the location where the user does exercise by a link to a google map, insert name of the exercise, and calculate the calorie burn.
 - **Trend:** Trend is a feature that shows the total calories that users eat and burn per day, per week, and per month. Moreover, it also shows the average calories and burnt calories.
 - **For you:** We will provide for your features to be the recommended activity of the day for users. For example, we recommend you to exercise 60 minutes today and recommend exercises like running or yoga. The time that we recommend will be random every day.
 - **Settings:** We provide settings for users who want to update their information such as photo, name, email, weight, and height.
 - **Support both Thai and English:** Users can change the language from English to Thai, so we provide this feature in the settings menu.

Draft of user interface



The overview and objective of the project

Nowadays, everyone begins focusing more on body health. Everyone wants to have a healthy body and perfect body shape. Causing exercise, and diet or calculating calories become a worldwide trend. In addition, we have to design an application named healthy calories that can record the user's exercising and eating a day. Exercising a day will be used to compute with calories that users consume. Then the application will summarize the calorie consumption and calorie burning for. Moreover, the application also has recommendations for exercise programs daily for users.

The application design

Logo of Application

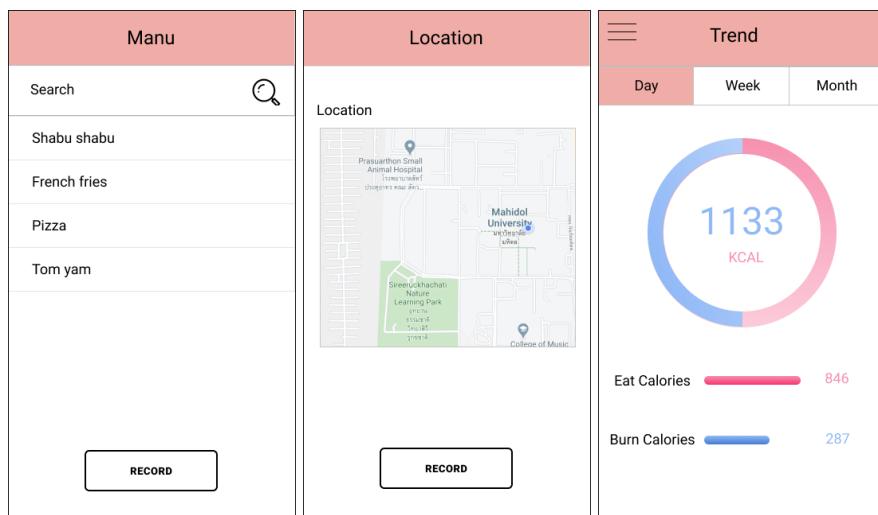
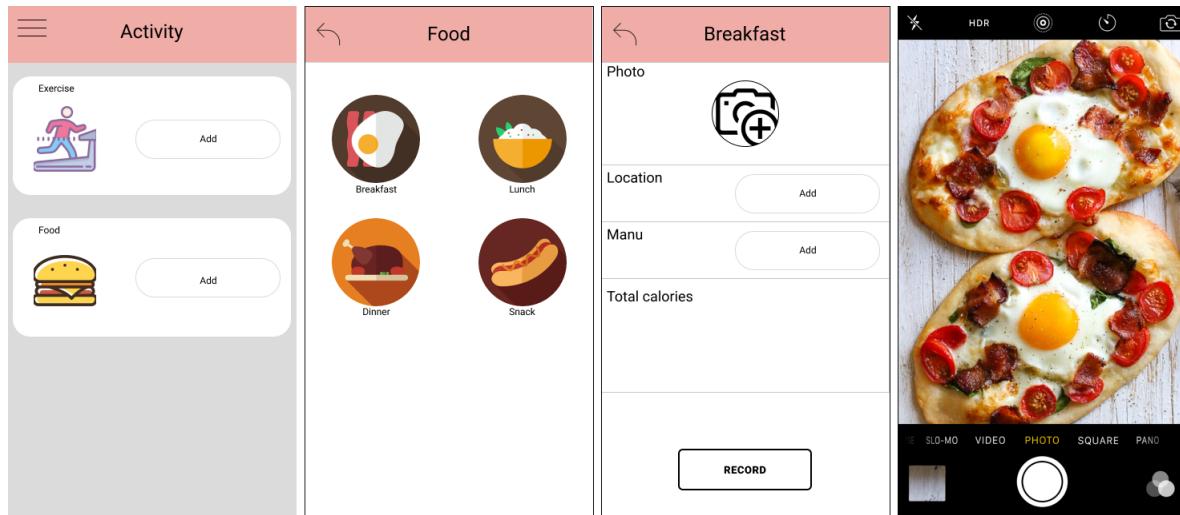


Register and Login

The image displays four wireframe screens for a mobile application. The first screen is a landing page with the 'Healthy Calories' logo and buttons for 'LOG IN' and 'REGISTER'. The second screen is a 'Register' form with input fields for Name, E-mail, Password, and Confirm Password, along with a 'SUBMIT' button. The third screen is another 'Register' form, but it includes a success message 'Registered Successfully' and a 'LOG IN' button. The fourth screen is a 'Login' form with fields for E-mail and Password, and a 'LOG IN' button. There is also a link 'Not a member? Register' at the bottom of the login screen.

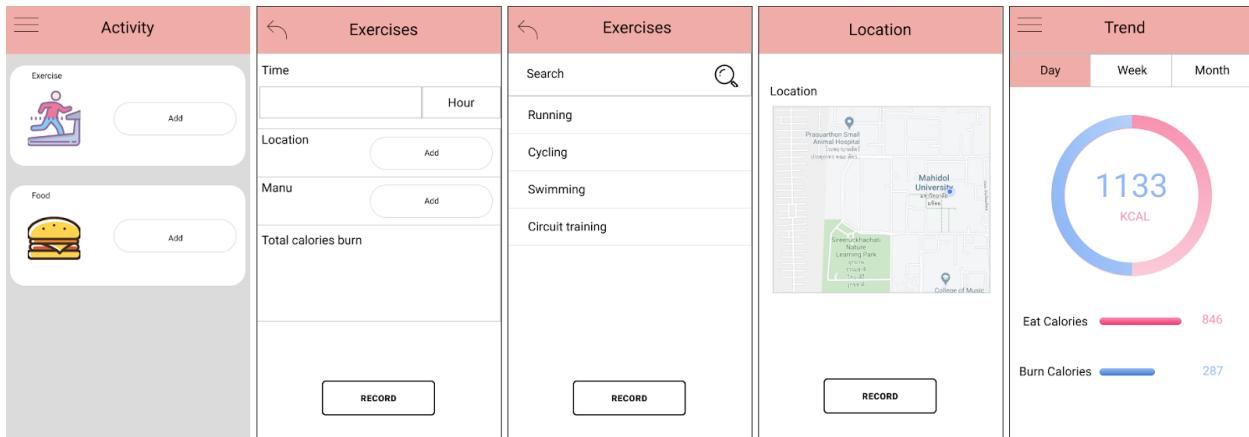
Users are able to register and login to our application. On the first page, new users can select a register and people who are already a member can select login to access our service in an application. For new users who access login which enter the wrong page, they are able to go to the register at the bottom of the page which is clicked, Register.

Record Food Activity



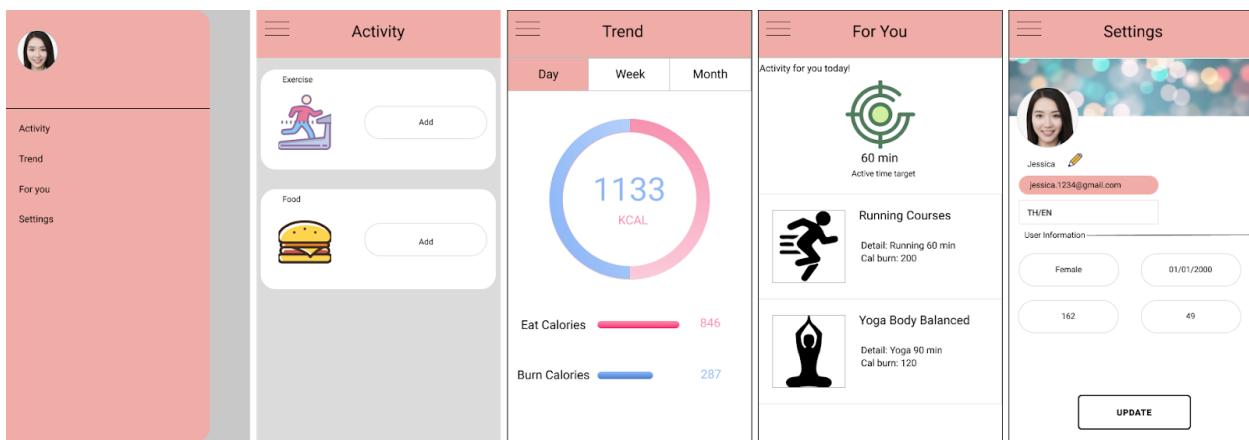
Record food activity, users can choose meals which are breakfast, lunch, dinner, and snack. Moreover, our application will link to a camera to take photos of user meals. Users can search for the name of the food to get information about calories for the record. The application will link google maps to record the location of users. When everything finishes, show the overall calories in the Trend page.

Record Exercise Activity



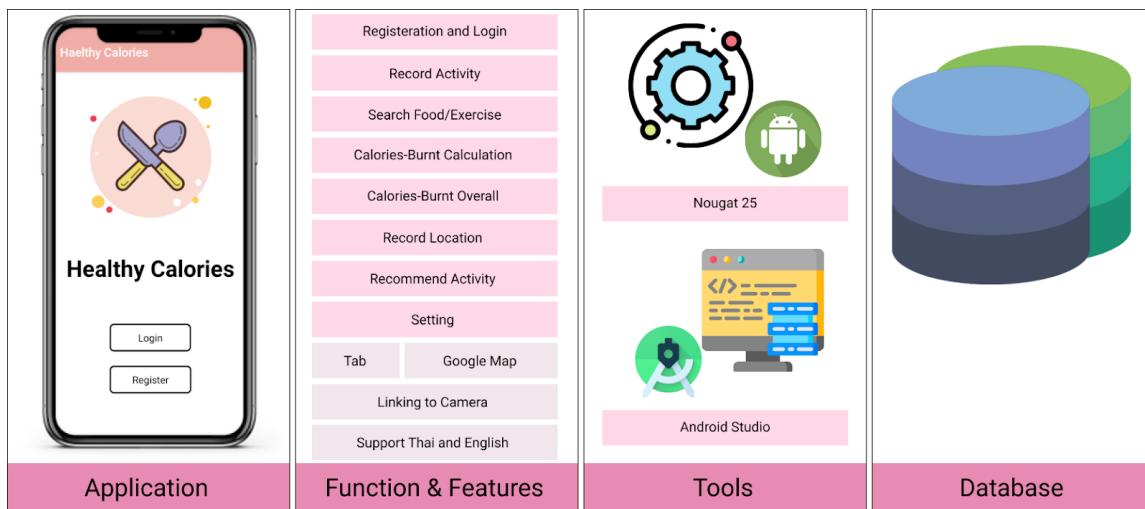
Record exercise activity, Users can record time that users use to exercise. The application will link google maps to add a record of the location of users. Moreover, users can search for the name of exercise to get information about burn calories for the record. When everything finishes, show the overall calories in the Trend page.

Tab



Tab provides the main page for easy access to our function which is Activity for record activity of food and exercise, Trend for showing the overall of calories in a day or week or month, For You is a recommended activity of users and Settings for updating users information.

The system architecture

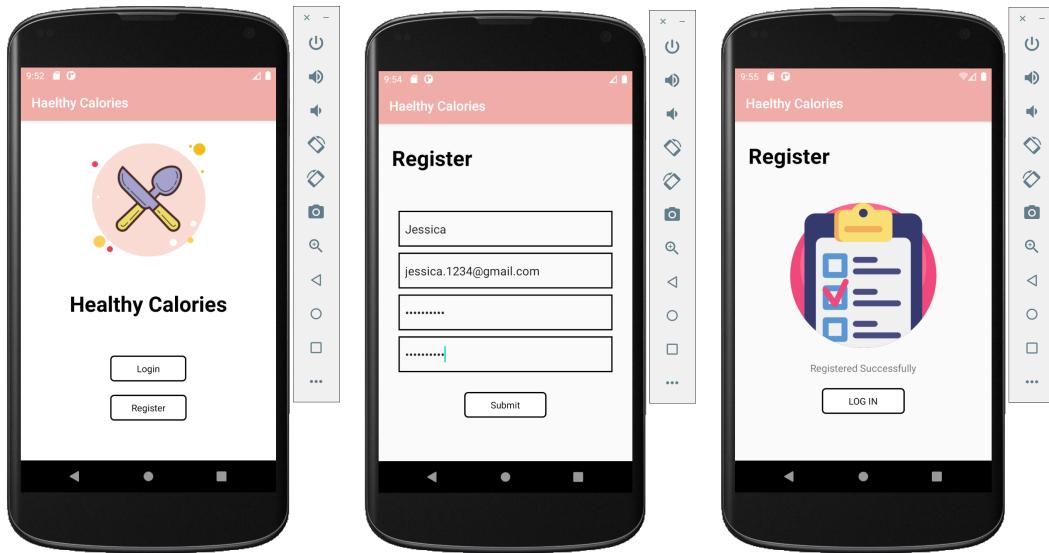


The system architecture, we use an android studio to build the diary of calories application. During function and features, we try to provide a marvelous user interface and user experience to the application by providing function for record activity, search food or exercise, calculate of calorie and burnt, and show the overall of calories moreover feature using tap, connect with google map, linking to the camera, and support Thai and English language. Furthermore, we examine modifications and design about functions and features with XML and activity files. We use databases to store user information and information on foods and exercises. For databases that store user information, we are using a firebase database to help us keep users' email and password for users who want to login to use our service in our application.

Screenshots of activities of application

Register

First page -> Register -> Register Successful



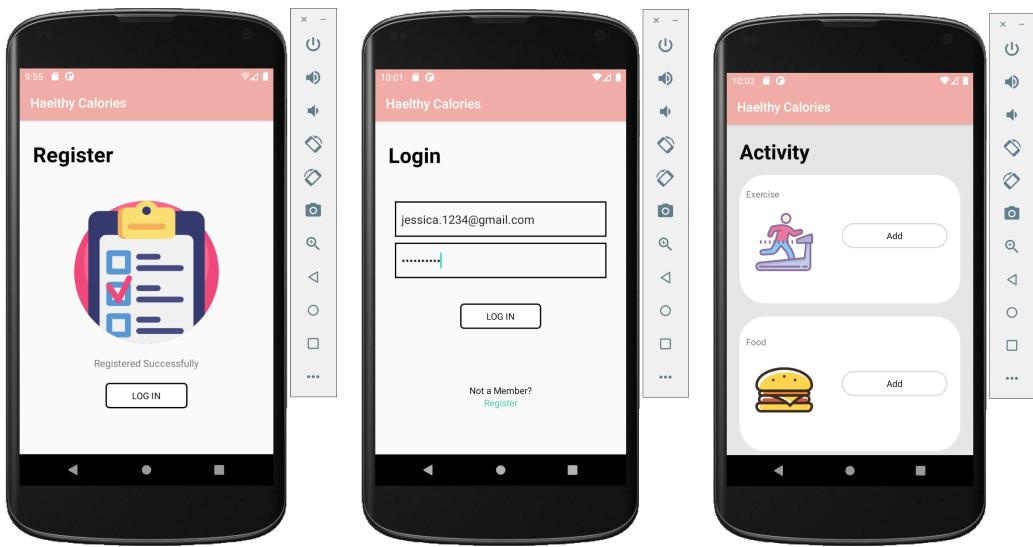
Database of User for Login by using firebase

When users are complete for registration then email and password of users will be kept in the database of firebase for login.

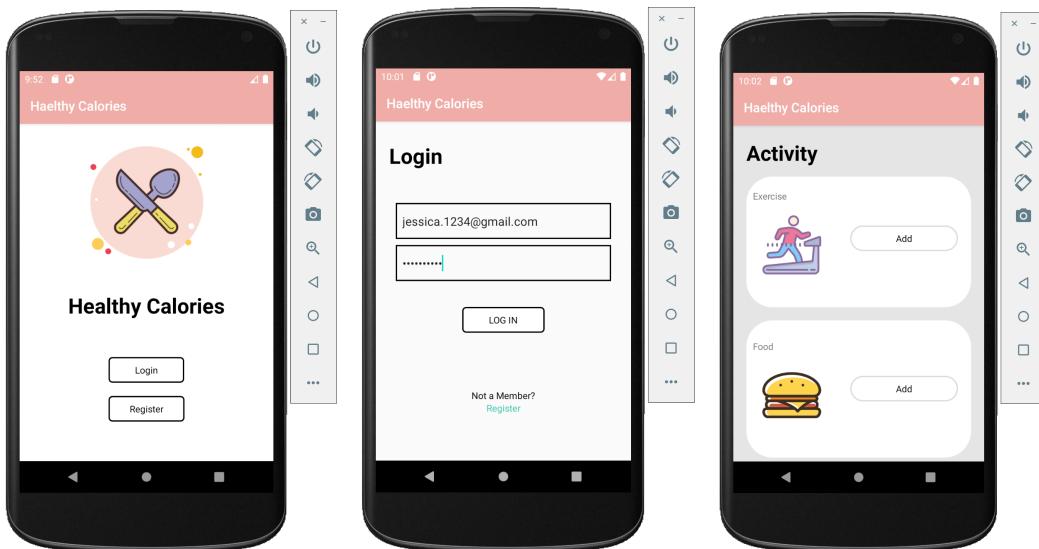
Users				
Identifier	Providers	Created	Signed In	User UID ↑
panaya@gmail.com	✉	31 Mar 2020	1 Apr 2020	6dFGsky1pCgFf8g9AEgDwm40cQ...
jessica.1234@gmail.com	✉	29 Mar 2020	1 Apr 2020	Li9Oq4HOpygz367c2gQMzOdQYD...
ploy@mail.com	✉	1 Apr 2020	1 Apr 2020	Yz9mUcdYhRSej2z9tvgNgxglpRp1
klinton12345678900987@g...	✉	7 Mar 2020	7 Mar 2020	ZvpCFnlW19fFcYJw506aTE6ucvM2
best123@gmail.com	✉	1 Apr 2020	1 Apr 2020	ylmr5K9VYT9zVUH3tJMcWTfq8J2
biwbiw@gmail.com	✉	1 Apr 2020	1 Apr 2020	zhfLE1gDfyMUwzR1zunzJs03LR02

Login

Register Successful -> Login -> Login Successful(Activity page)

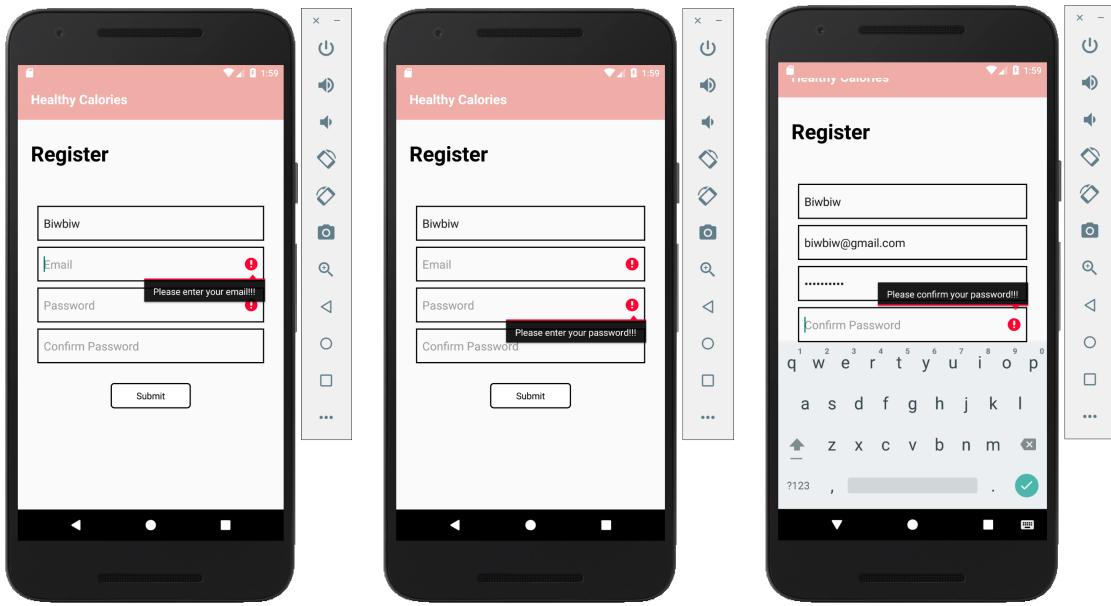


First page -> Login(For people who are already member)-> Login Successful(Activity page)

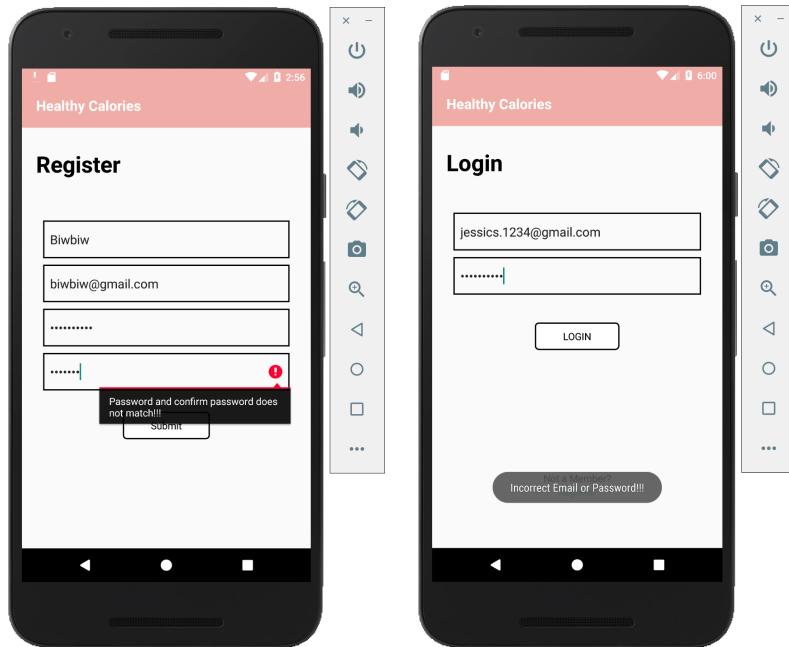


Alert value undefined

Alert value undefined -> Email, Password, and Confirm password are required for registration.



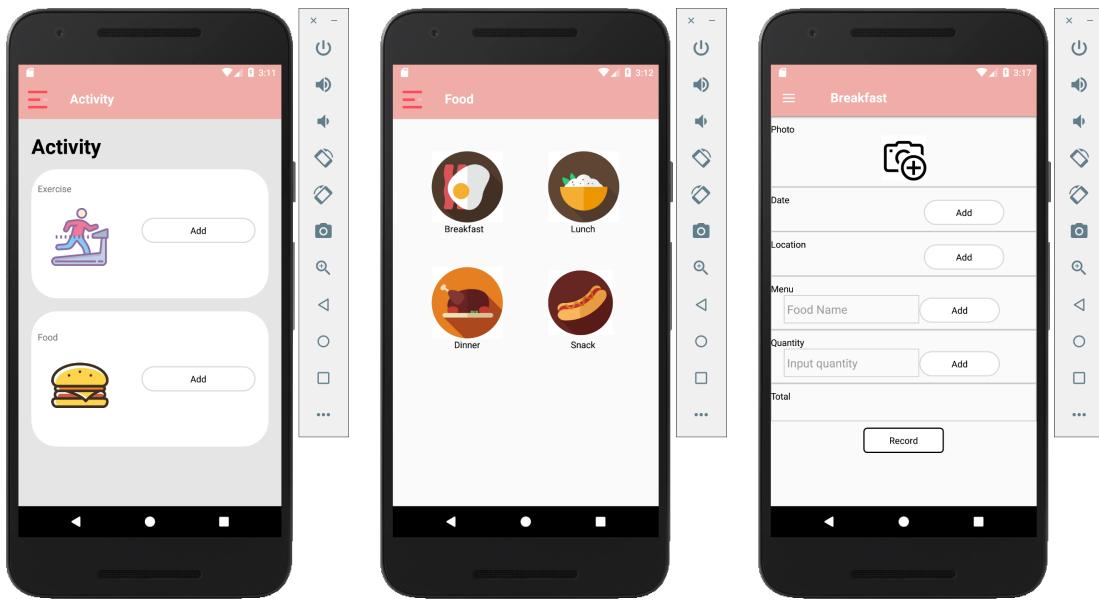
Alert value while input password and confirm password are not matched and Alert value from users who input the incorrect email or password when login.



Add Food Activity

Activity page -> Food page

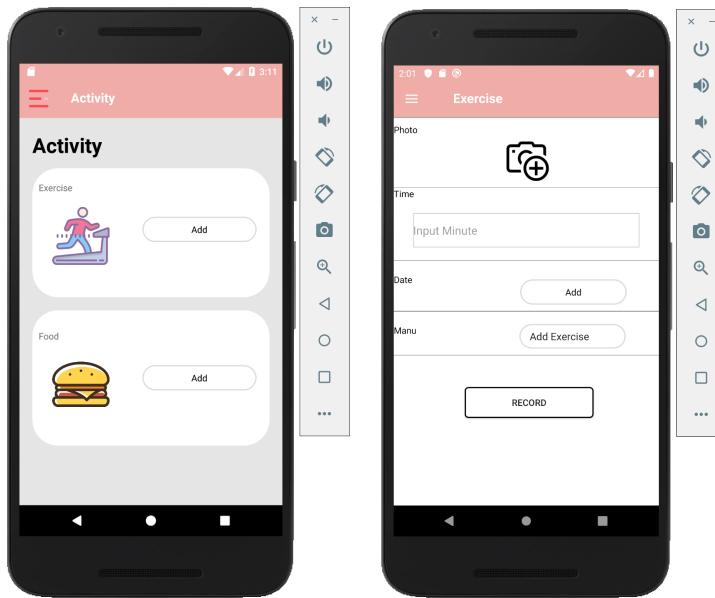
Users are able to select a meal for record calories.



Example of Breakfast, users can take a photo, record location, and add the menu of this meal.

Add Exercise Activity

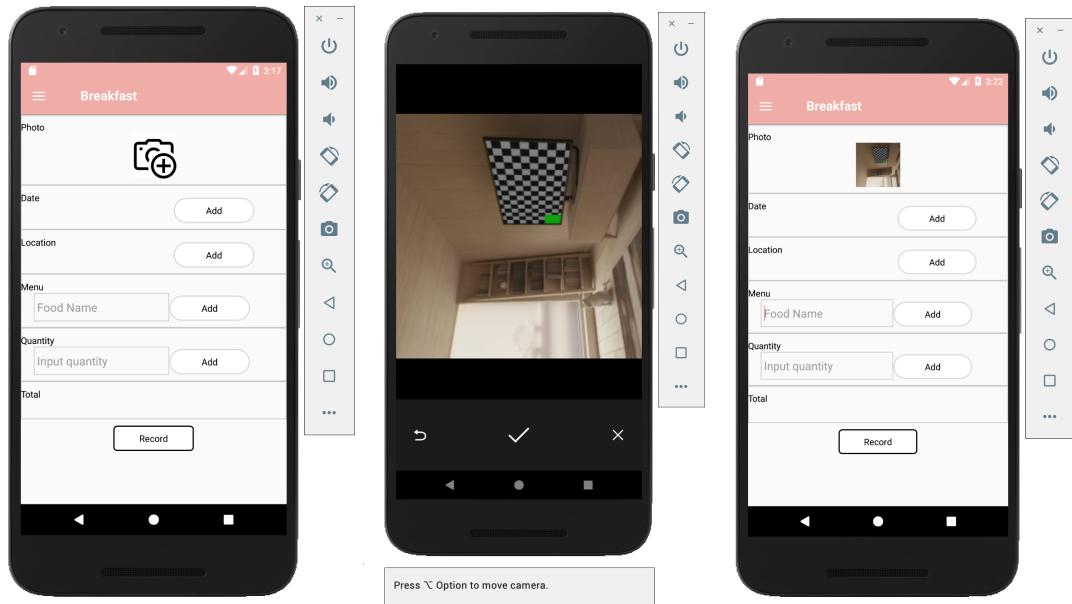
Activity page -> Exercise page



For example, users can input a minute, record location, and add an exercise menu.

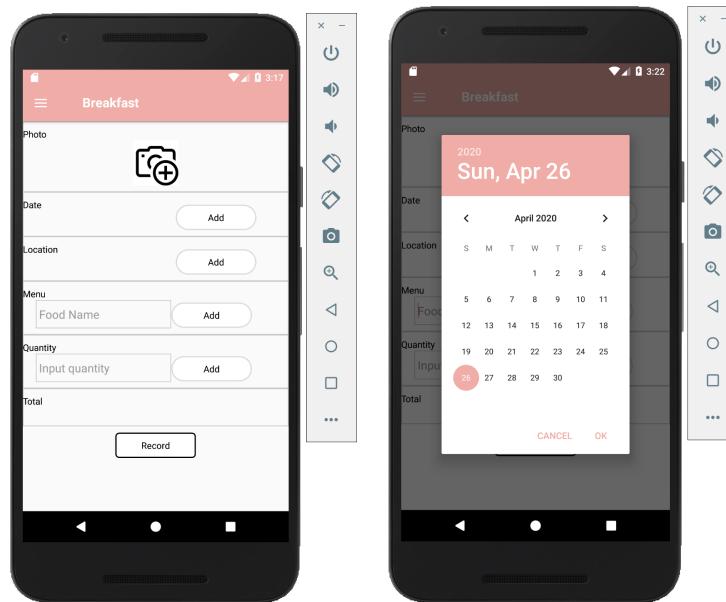
Link to Camera

Click block -> Link to Camera -> Take photo -> Take photo successful



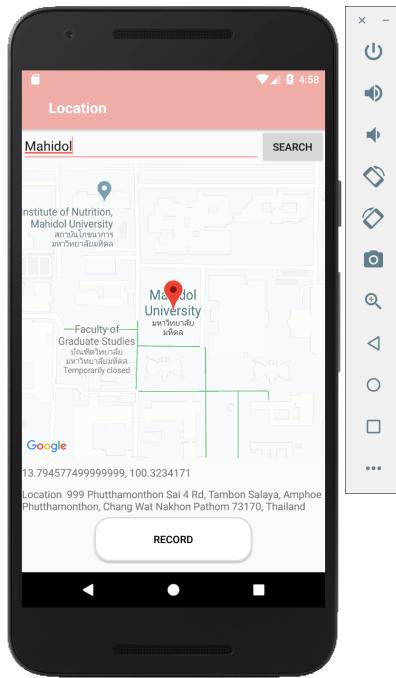
Link to Calendar

Click Add Block of Date -> Link to Calendar -> Select Date



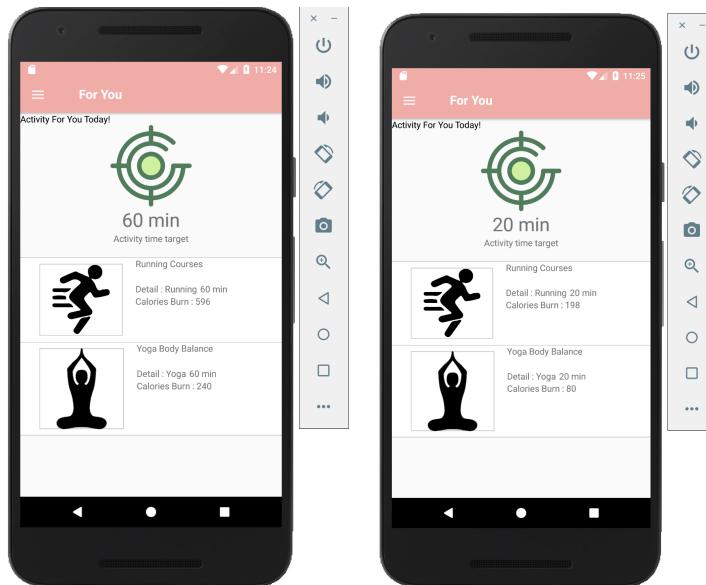
Link to Google map

Users can search the location.



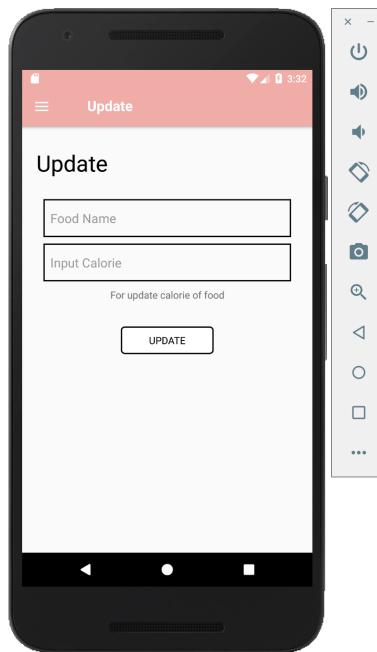
For you

For you page is a recommended activity for you.



Update

When some food is unavailable, users are able to update that food to our application.

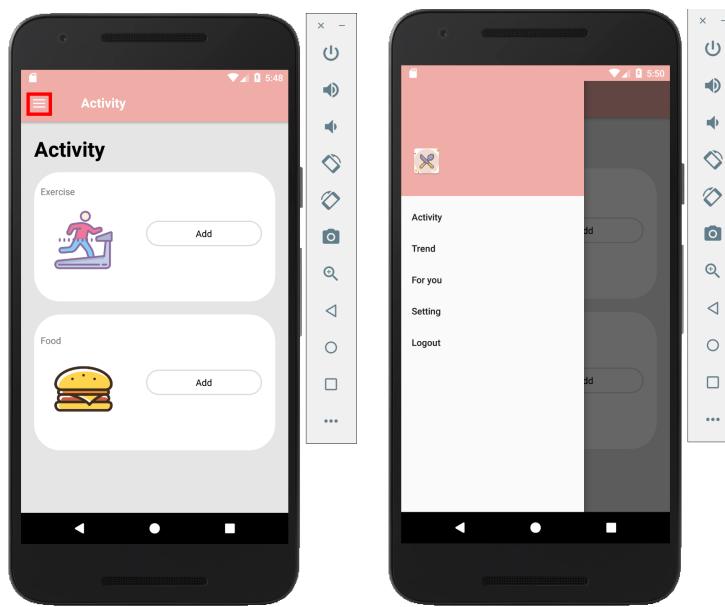


Navigation Drawer tab

Drawer tabs provide access to your destination pages.

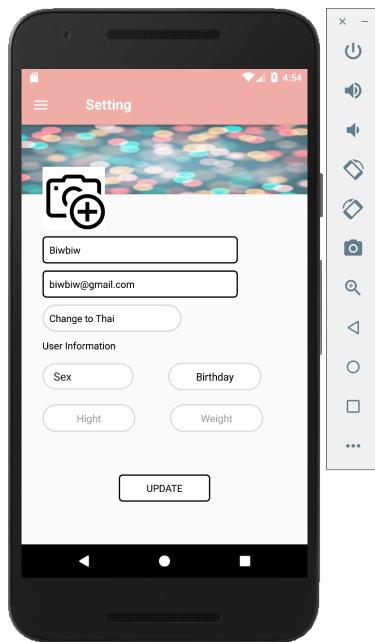


Drawer tap -> Select your destinations



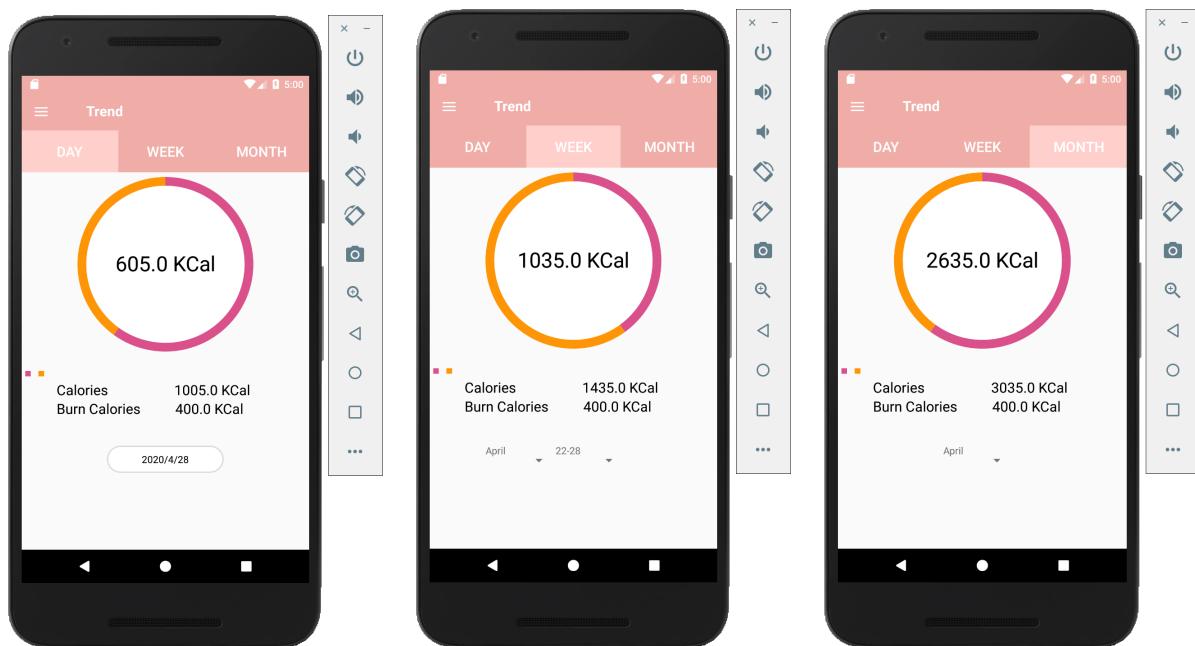
Setting

For users who want to change to Thai language.



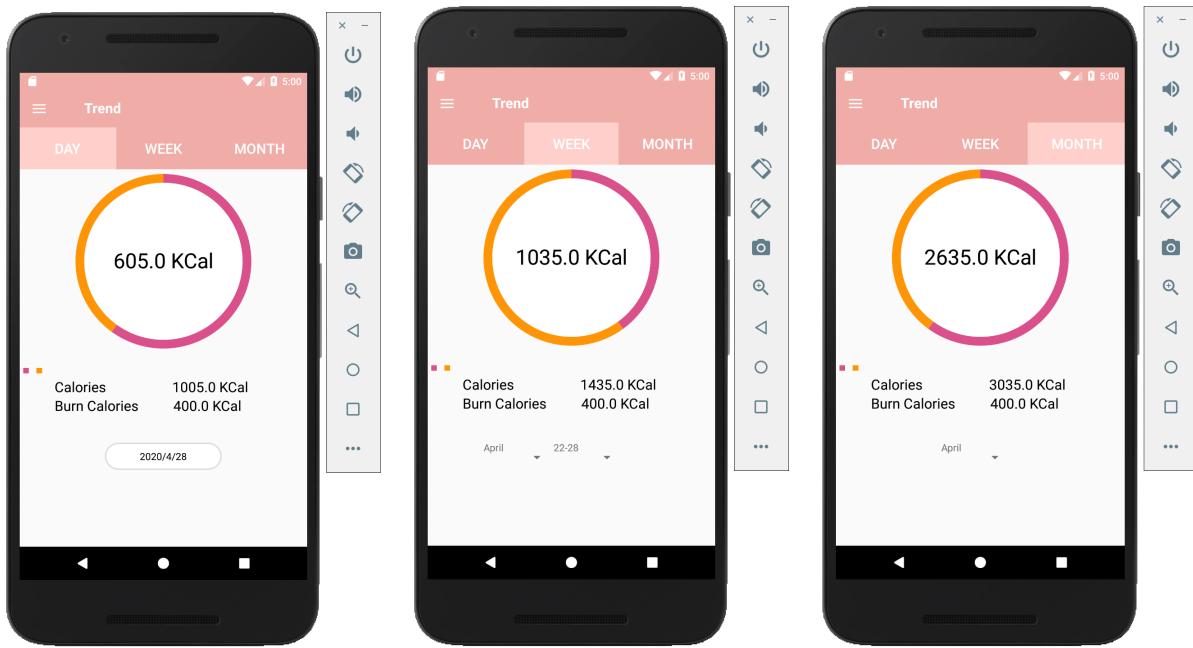
Tap

Users are able to click tap or slide to see the layout of that page.



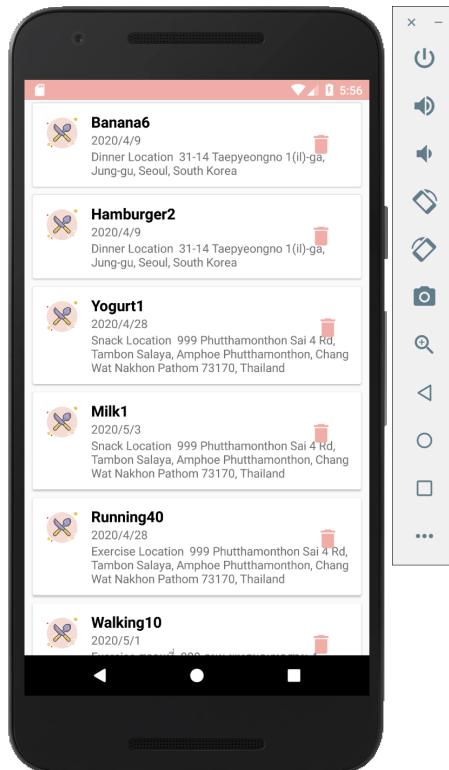
Trend

Overall of Calories by per day, week, and month



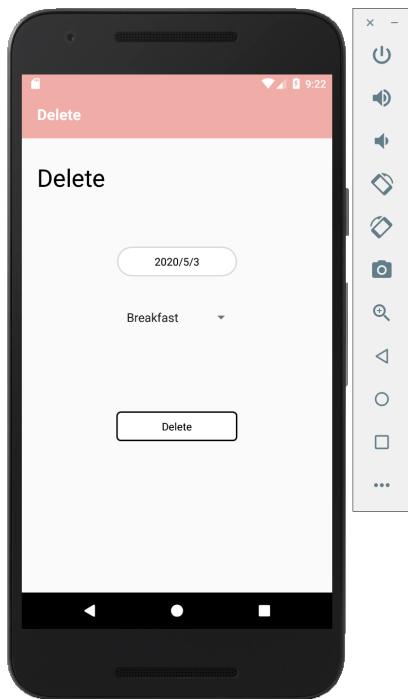
RecyclerView and CardView

To show all of the activity.



Delete

For users who want to delete their activity.



Change Language

