

Mobile Application Development with Android

Project Description

1. Short description

We will try to design an app that can be used to record daily income and expenses, we hope that this app can help users understand their own financial status, users can intuitively understand their spending status, can help users save money and avoid unnecessary expenses. There are many apps have similar function, but most of them are all paid for or filled with lots of advertising. So, we thought it was necessary to have an app of our own.

2. Functional specification

The app has 3 activities, the main Activity will display a list of recent expenses and income. In addition to the main activity, we have an Activity to record specific information about each expense or income, we also have an Activity to display statistics on expenses and income for the month or the week, or the period defined by user.

We are going to use a local room database to save the past routes and corresponding, In the record Activity, the user can use camera to make a picture about the expenses and incomes.

If we have enough time, Data can be presented as a statistical chart in the statistical Activity. But the function of displaying data in a purely digital way will definitely be implemented.

3.1. Must-have features

Feature 1 The Main Activity:

- Date, amount, type should be showed in the Listview
- When the element of the List being clicked, the Activity for record will start, and the information that already exists about the element will be showed in the Activity for record.

Feature 2 The record Activity:

- The Activity will be started, when the user want to add a new expense or income, or the user want to change some information about a expense or income, which is already exist.
- The use should give: Data, amount, type. If it is necessary, the user could also save the picture and detailed description.
- The data will be send back to main Activity for sure.

Feature 3 The statistical Activity:

- Show the statistics on expenses and income for the month or the week.

Feature 4 Reminder:

- 8am remind users to use the app.(can be turn off)

Feature 5 Data save:

- Store all data in a local room database.

Feature 6 Setting:

- The remind can be turn off.

3.2. Nice-to-have features

Optional Feature 1 Warning

- If the cost of this week is too high, every time uses open the app, the app will show a warning.

Optional Feature 2 Reminder

- Each Montag will remind the spending status about last week.
- Each 1st will remind the spending status about last month.

Optional Feature 3 The statistical Activity:

- Can show the data in a Graph.
- The time period for displaying data can be set.

4. Timeline

Step	Deadline	Member
Project Setup	20.7	Member 2
Feature 1	25.7	Member 1
Feature 2	25.7	Member 2
Feature 3	1.8	Member 1
Feature 4	1.8	Member 1
Feature 5	3.8	Member 1 & Member 2
Feature 6	3.8	Member 1
Optional Feature 1	7.8	Member 1
Optional Feature 2	7.8	Member 2
Optional Feature 3&Update the Database	17.8	Member 1 & Member 2
Result show & Project cleanup & nice to have features	19.8	Member 1 & Member 2
Final Report	22.8	Member 1 & Member 2
M1: Zilin.Song		
M2: Xinyu.Guo		