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Expense Tracker

Description

Forget about not remembering where you spent your money! Keep track of your expenses and get a lot of statistics to know in what you spend more and you can evaluate where you can cut some expenses! Take advantage of this tool that will help you to manage your money and be informed all the time. You can also configure to get notifications when you have to make some payments every month so you don't forget!

Intended User

This Application is made for any user who wants or wish to keep a better track of their expenses in order to keep them in a same place.

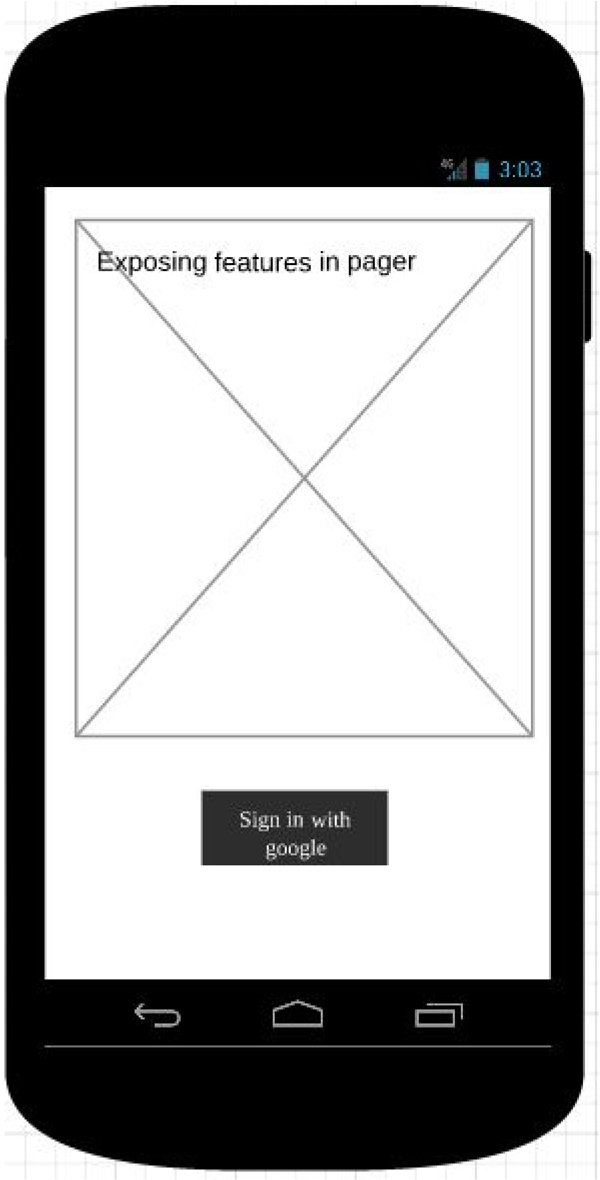
Features

- Saves information of expenses
- Manage categories for expenses
- Create reminders to payment dates.
- Shows statistics of saved data.
- (Probably) Sync data with google drive

User Interface Mocks

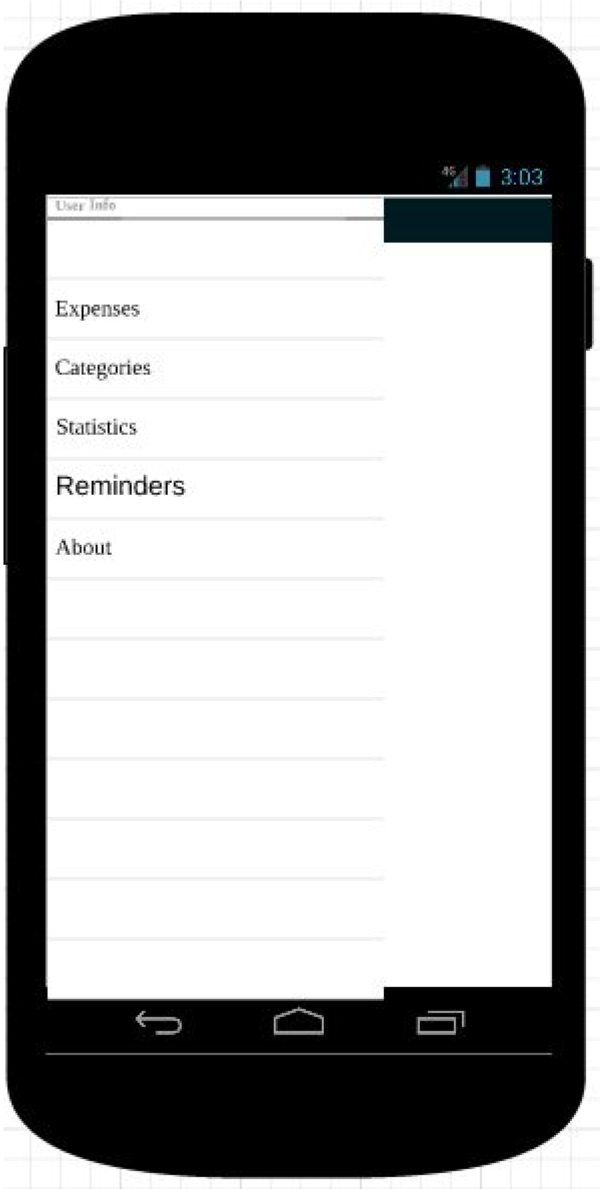
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Screen 1



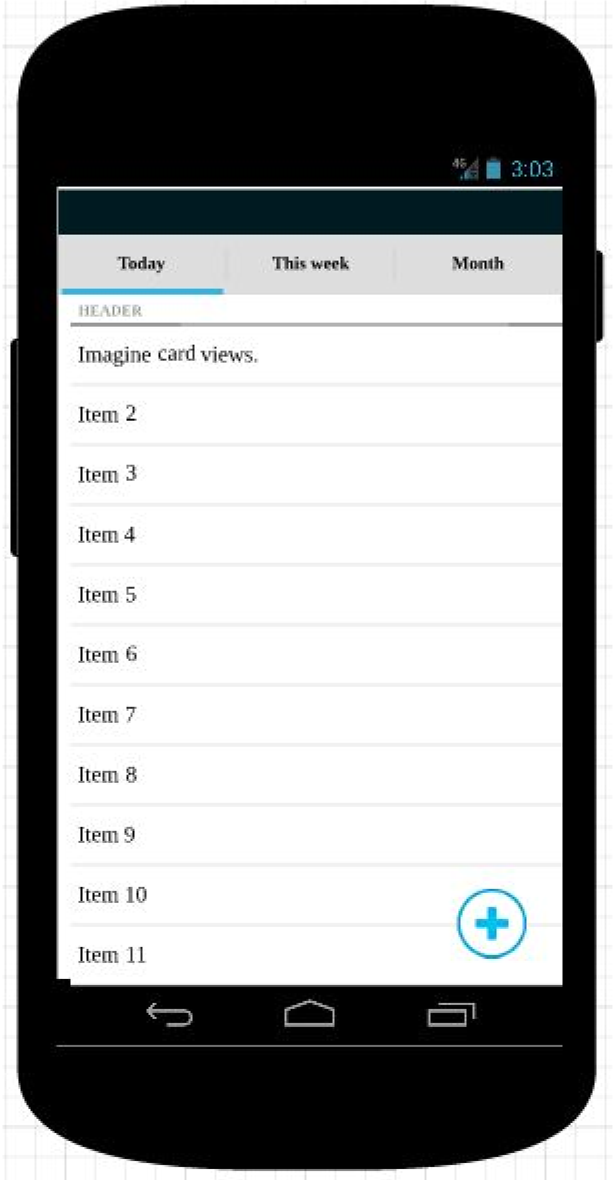
Brief introduction showing the features available in the application. Effects with parallax will be shown and a sign in with google is required

Screen 2



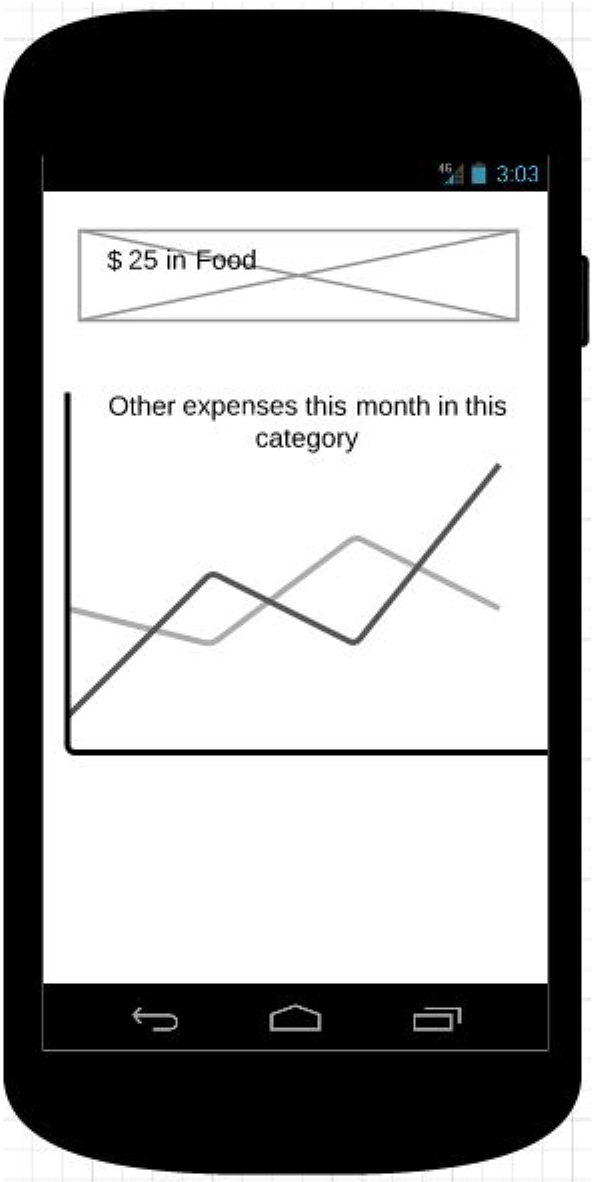
This are the options the navigation drawer the app will contain. These will contain the screens the user can navigate too.

Screen 3



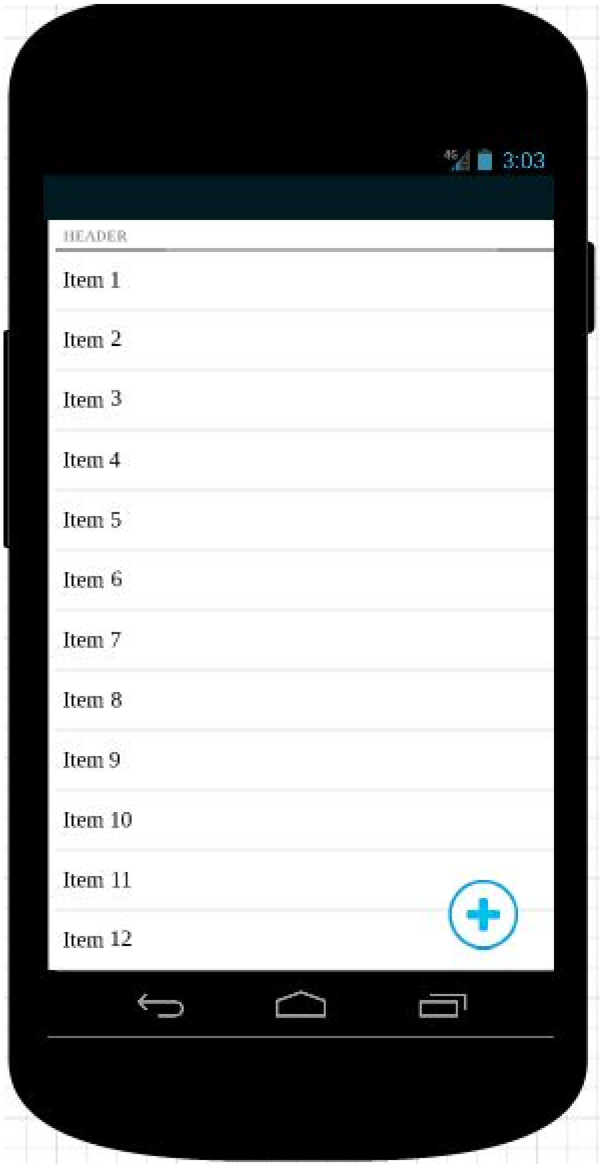
Expenses View. This is the main screen that will be showed. The user will be able to add expenses and see a total amount in Today, Week and Month.

Screen 4



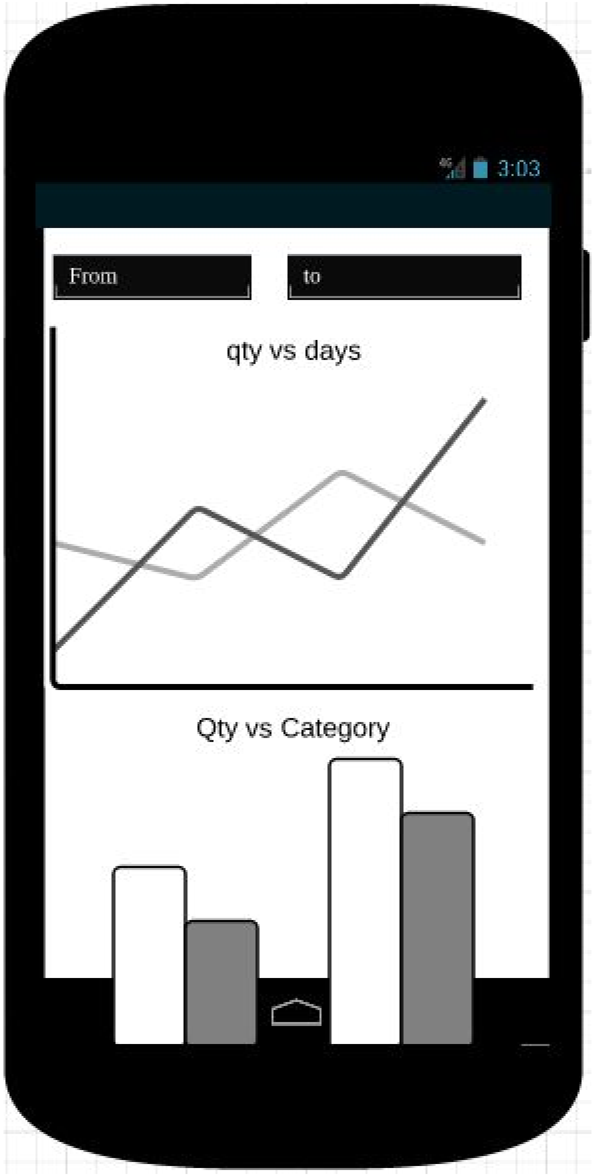
Expense detail will show the expense selected and a graph according to the tab selected in the previous screen.

Screen 5:



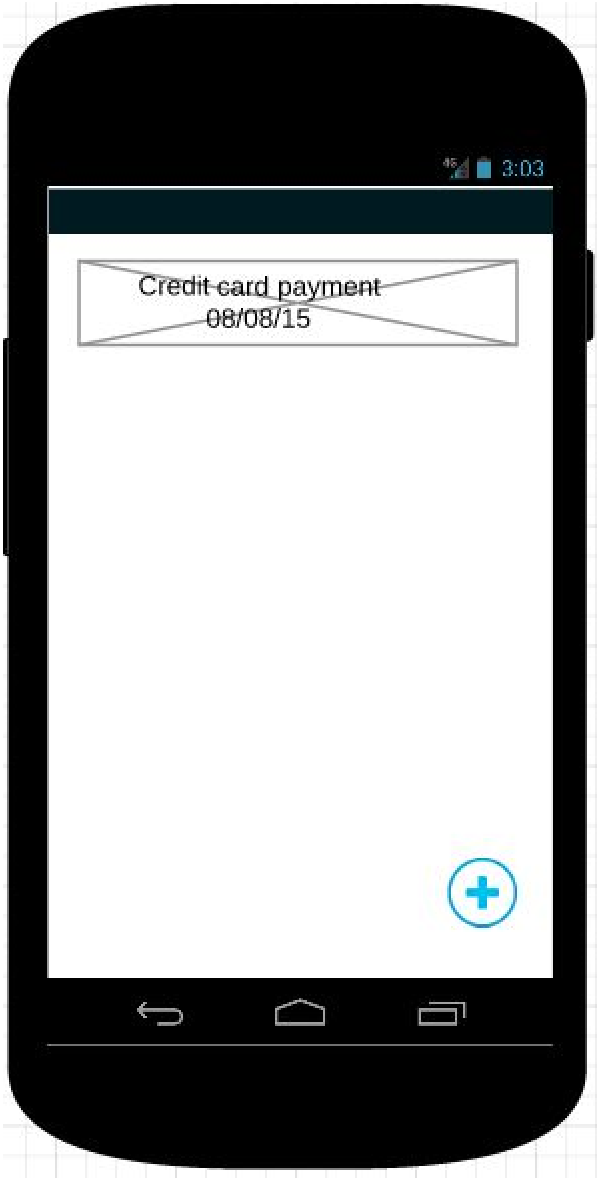
User will be able to add and delete categories from the Categories View.

Screen 6



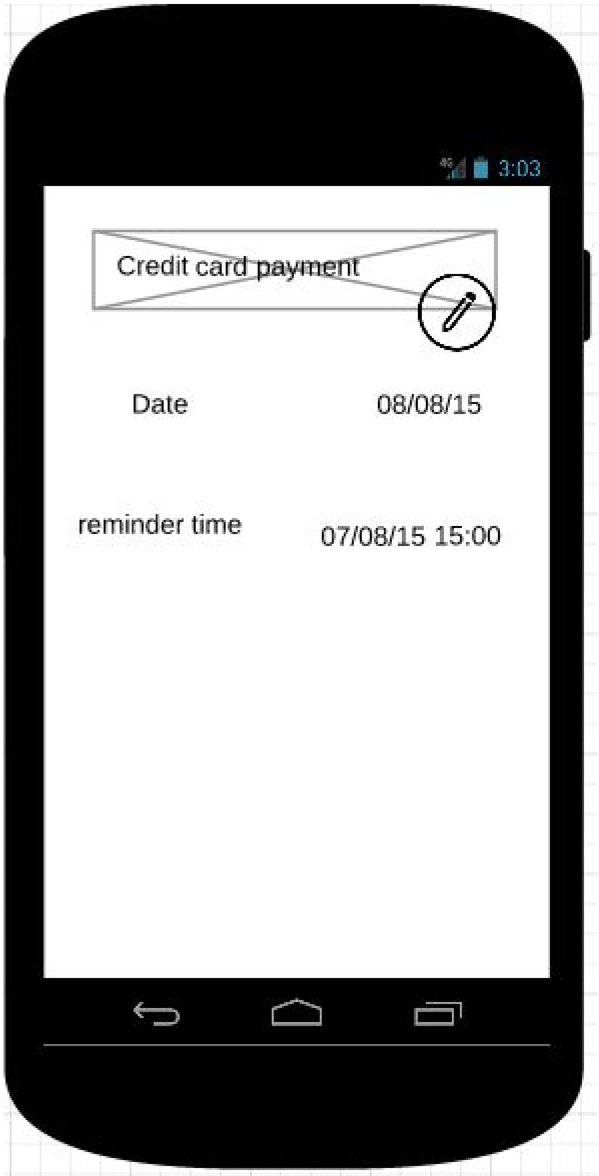
Statistics will be able to change according to the dates selected. Default values will be the current week. User Will be able to see diagrams according to Quantity and days, Quantity and categories and others.

Screen 7:



Reminder screen will show the current saved Reminder and if they are active or not. To activate one it will have a switch next to the name so it can be activated in any moment.
The user will be able to erase and add from this view.

Screen 8



Reminder view will contain details from the reminder created and the user can edit the reminder values.

Key Considerations

How will your app handle data persistence?

Will use a Realm ORM. Realm allows fast operations and quick configurations.

Describe any corner cases in the UX.

The user can access the application when a reminder notification is on the notification tray. This will take the user to the screen.

Describe any libraries you'll be using and share your reasoning for including them.

Android Support Library, Card View, Recycler View, Material : The application will follow Material design guidelines.

Realm : Library to use Realm ORM in the application. This will allow to save data in the database of the app and to retrieve, update and delete objects saved.

William Chart or MPAndroidChart: Library to implement the graphics to show the statistics of the app. Statistics include Expenses per month, per week and comparison of expenses according to selected dates.

Next Steps: Required Tasks

Task 1: Project Setup

Create project with simple activity.
Add the library dependencies described in the below to the build.gradle file.
Create an application Class to handle the initialization of required libraries.
Create Helper class for libraries according to the Business Logic.
Create project structure: Entities, Listeners, Ui -> Fragment, Activities, Custom Views

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for MainActivity
- Build UI for Expenses Activity
- Build UI for Expense Detail that will show last known expenses in the same category as a summary.

- Build UI for Categories Fragment
- Build UI for Statistics fragment

Task 3: Expenses Fragment

Implement Business Logic for Adding and removing Expenses. Including removing from recycler view:

- Add expense or income from FAB
- Remove expense or income from recycler view after enter to the detail page.

Task 4: Categories Fragment

- Categories add and remove from recycler view.
- Detail of category with graph showing last used in the present week.

Task 5: Statistics Fragment

- Picker to select dates to make the query.
- Show Graph for expenses made that month
- Show graph for expenses made by category

Task 6: Reminder Fragment

- Schedule a reminder in a time selected with description
- User can erase or edit the reminder