GitHub Username: pedrolopesme

MoneyLog

Description

With the app MoneyLog you can manage and track your expenses. At any time, you can check all your money transactions ordered by creation date and check your finance situation.

Intended User

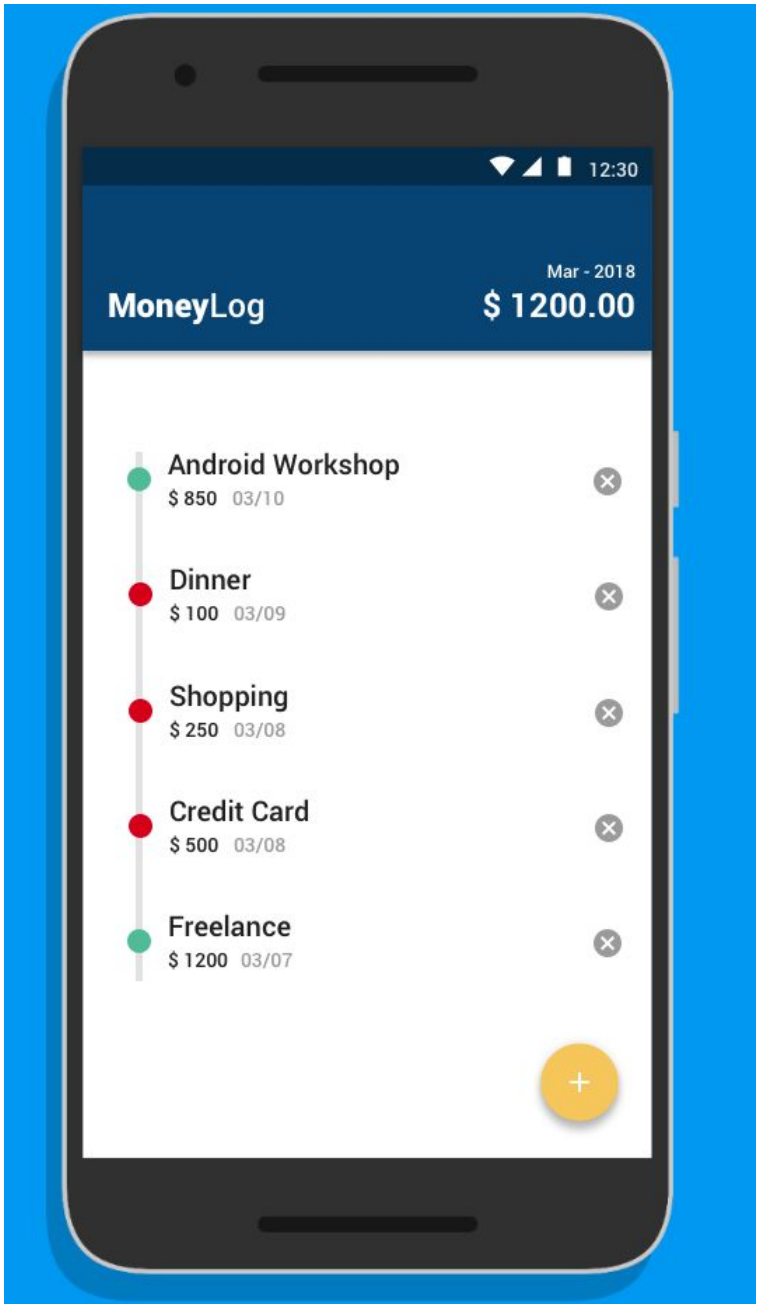
MoneyLog App comes to help people who need to track their expenses on a daily basis.

Features

- Main screen show the user's expenses ordered by date of creation. Also, how much money the user has based on his transactions
- An easy way to register new transactions, categorizing as Debt or Income
- The app will save user's location when saving a transaction and show it
- The app will suggest locations to associate with a transaction using Google Places API
- An Widget to show the user's financial situation
- The user will be notified via Push Notification whenever his account turns to Negative or Positive

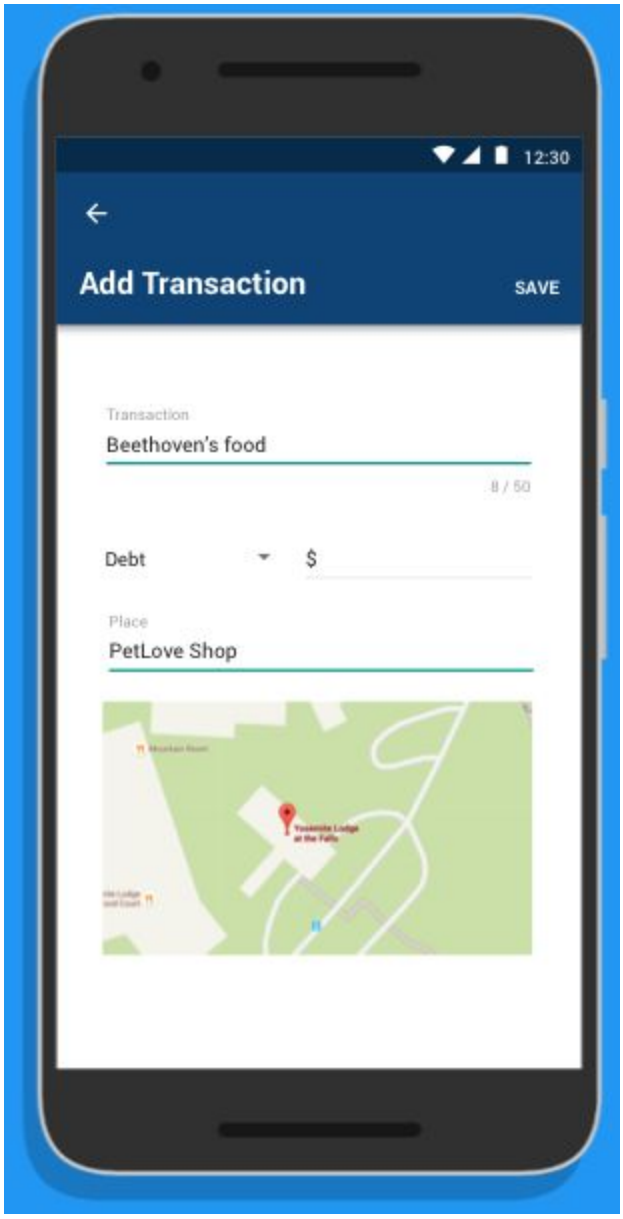
User Interface Mocks

Screen 1 - Phone Main Screen



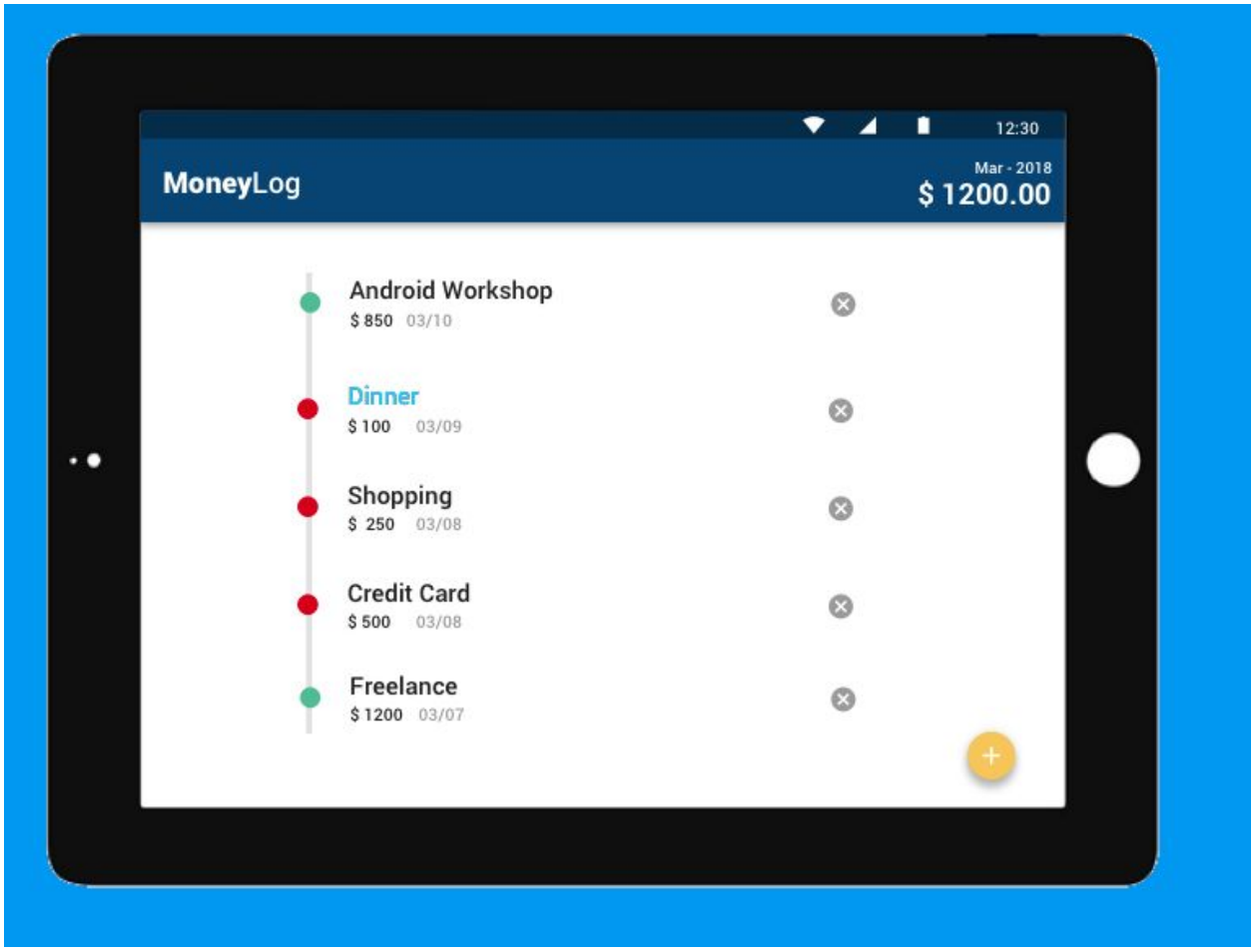
User's transactions history and his account summary.

Screen 2 - Phone - Add Transaction



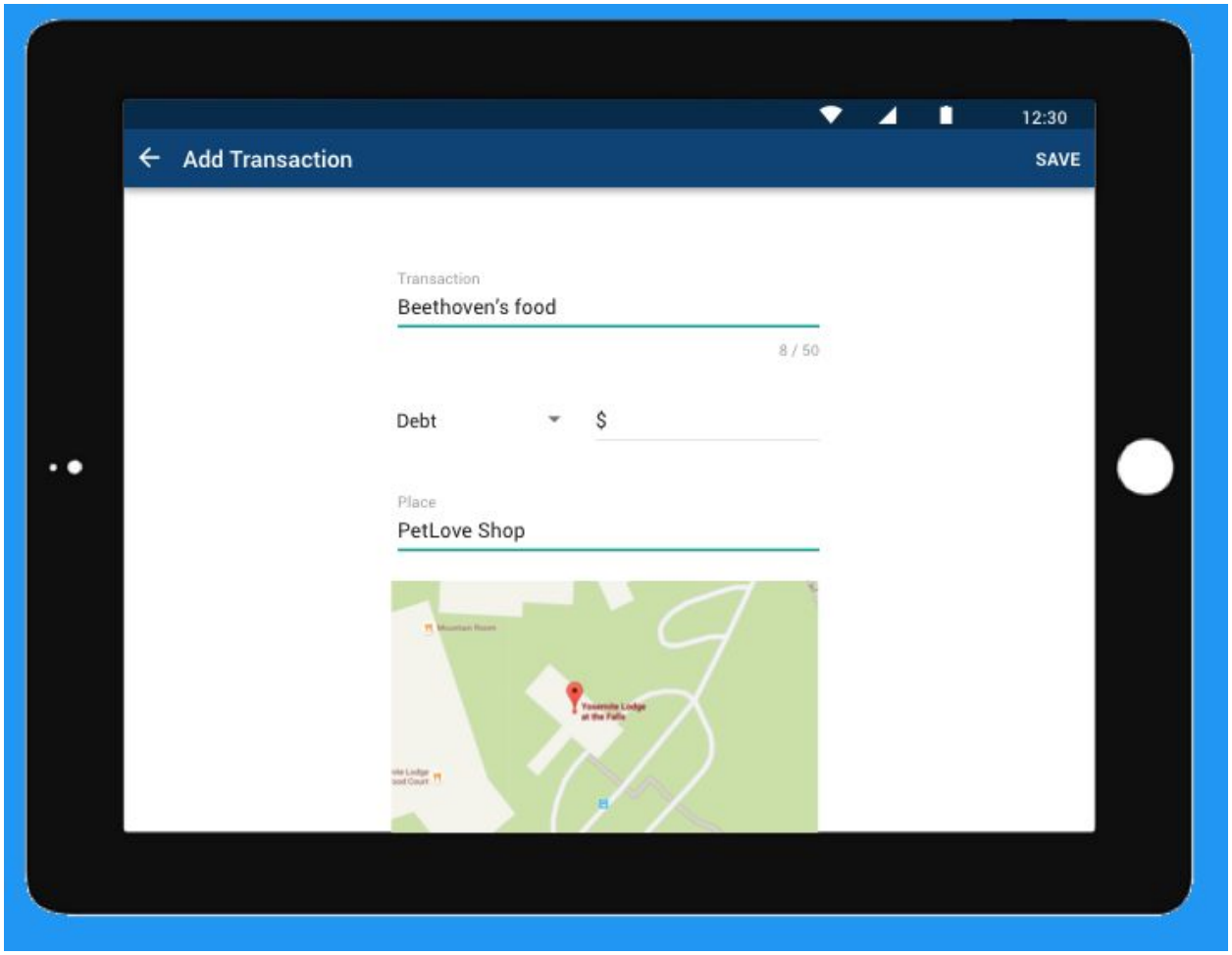
Screen designed to add new Transactions. It'll be accessed from the app main screen and the widget.

Screen 3 - Tablet - Main Screen



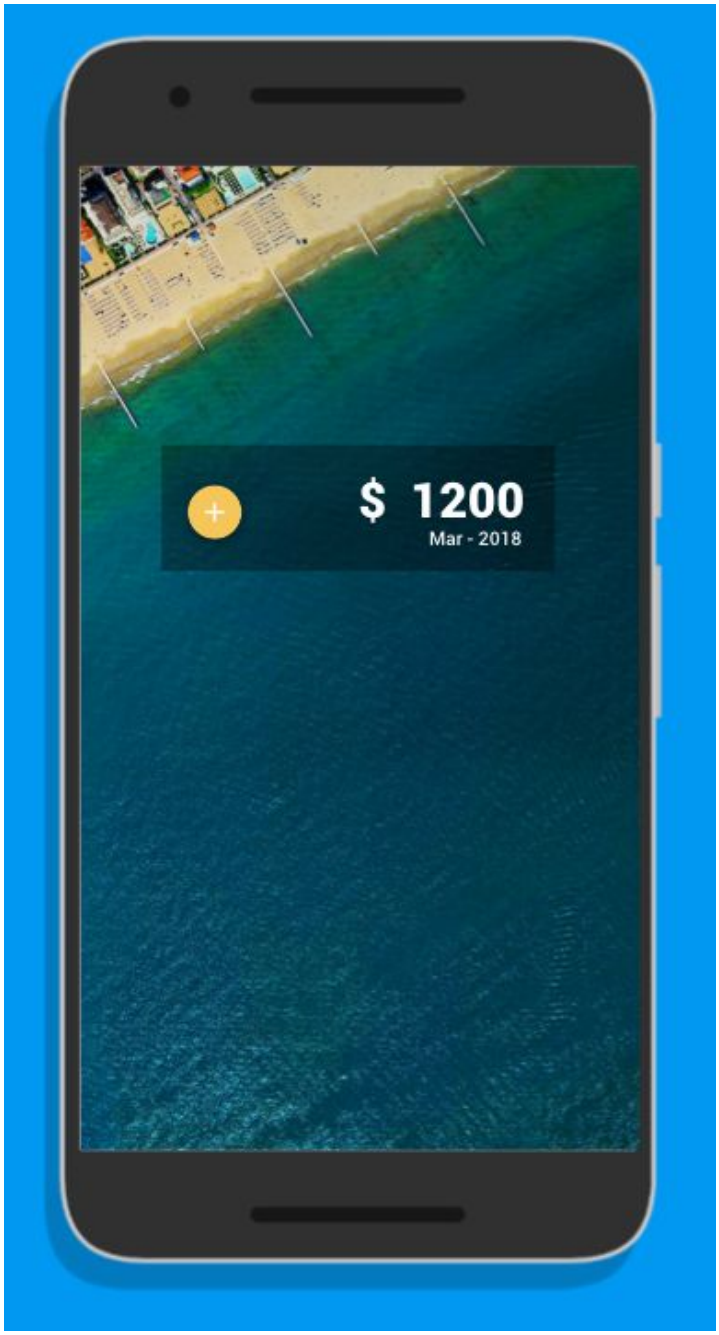
User's transactions history and his account summary - tablet version.

Screen 4 - Tablet - Add Transaction Screen



Tablet version of the screen designed to add new Transactions. It'll be accessed from the app main screen and the widget.

Screen 5 - Widget



Widget designed to show user's account summary directly from his home screen.

Key Considerations

How will your app handle data persistence?

MoneyLog will store user's transactions locally, using a Content Provider to add, list and delete entries.

Describe any edge or corner cases in the UX.

- Upon launch, users will get a list of their last transactions
- Users touch "Add Button" from Widget: They need to be redirected to Add Transaction screen, skipping Main Screen
- Users touch Push Notification : They need open the app on the Main Screen, showing their transactions.

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

- ButterKnife, to write less code whenever I need to find a view.
- Timber, for better logging
- Google's Support Library, specially Design Support Lib and NotificationCompat

Describe how you will implement Google Play Services

- com.google.android.gms:play-services-location : To associate user location with his transaction
- com.google.android.gms:play-services-maps : To show the transaction geolocation in a map

How the app will pull data from external services?

The app will make searches using Google Place API using **AsyncTask** to perform short duration, on demand requests.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time until you have a finished app.

Task 1: Project Setup

- Configure libraries
- Create a code skeleton, creating placeholders for the future code
- Create build variants

Task 2: Content Provider

- Create Transactions Content Provider, allowing:
    - Add new Transaction
    - List Transactions
    - Remove a specific transaction via ID

Task 3: Main Activity

- Implement UI for MainActivity and TransactionsFragment for both Phones and Tablets
- Integrate UI with the Content Provider, listing transactions manually inserted in DB
- Integrate UI with the Content Provider, allowing to remove a Transaction

Task 4: Add Transaction Activity

- Implement UI for AddTransactionActivity and AddTransactionFragment
- Integrate UI with the Content Provider, allowing to insert a transaction
- Create notifications whenever a new transaction turns user's account to Positive ou Negative

Task 4: Add Widget

- Implement UI for MoneyLog Widget
- Retrieve users account summary every minute
- Add a button to lunch MoneyLog App in add transaction activity

Task 5: Prepare to release

- Create app flavors
- Create an APK and publish it to Google Play