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Luna

Description

Luna is a cryptocurrency portfolio management app. It helps you to monitor real-time cryptocurrency prices and detailed crypto currency information. Luna widget allows you to display information of your favorite cryptocurrencies on your home screen. It also helps you to track your portfolio till it reaches the MOON!

Intended User

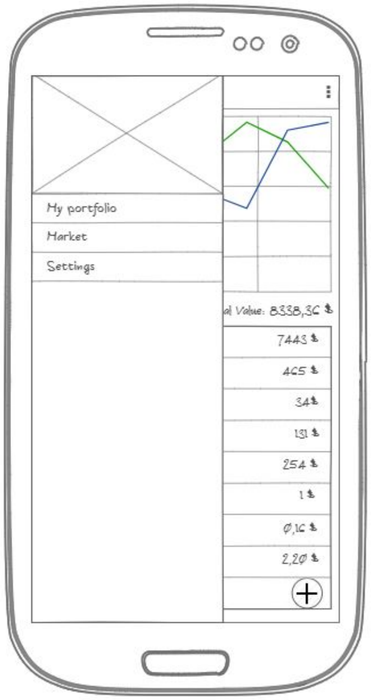
Cryptocurrency traders and enthusiasts

Features

- Fetch crypto currency price information from an API
- Display fetched information
- User can add transaction to his/her portfolio
- Portfolio history on a chart
- User can add a widget with his/her favourite crypto currencies

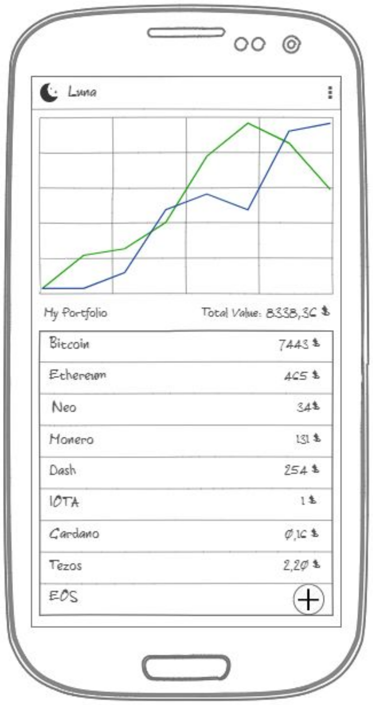
User Interface Mocks

Screen 1 - Navigation Drawer



The Navigation Drawer with three activities.

Screen 2 - My Portfiolio



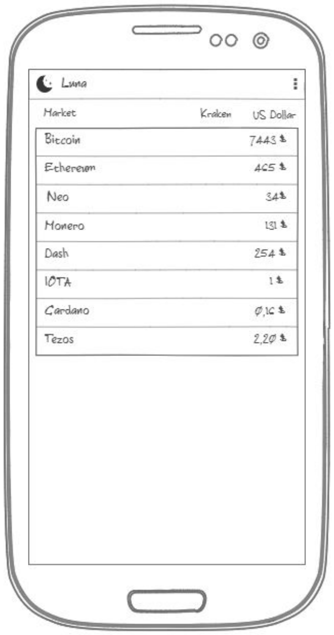
Luna

My Portfolio — Total Value: 8338,30 $

Bitcoin	7443 $
Ethereum	465 $
Neo	34 $
Monero	131 $
Dash	254 $
IOTA	1 $
Cardano	0,10 $
Tezos	2,20 $
EOS	

The My Portfolio Screen shows a chart about the portfolio history, the total value of the portfolio, and the portfolio composition.

Screen 3 - Market

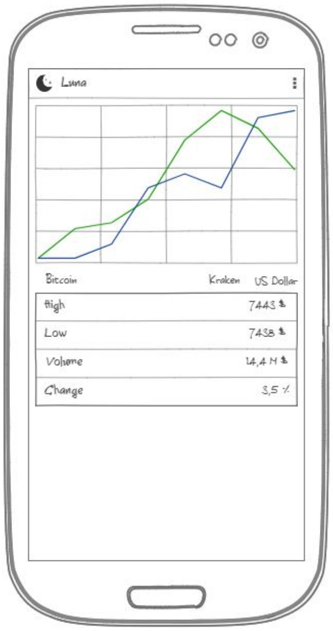


Luna

Market	Kraken US Dollar
Bitcoin	7443 $
Ethereum	465 $
Neo	34 $
Monero	131 $
Dash	254 $
IOTA	1 $
Cardano	0,10 $
Tezos	2,20 $

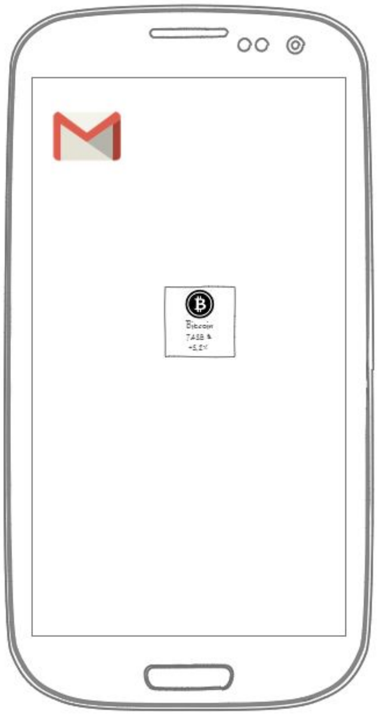
The market screen shows the real time price of the displayed crypto currencies.

Screen 4 - Details



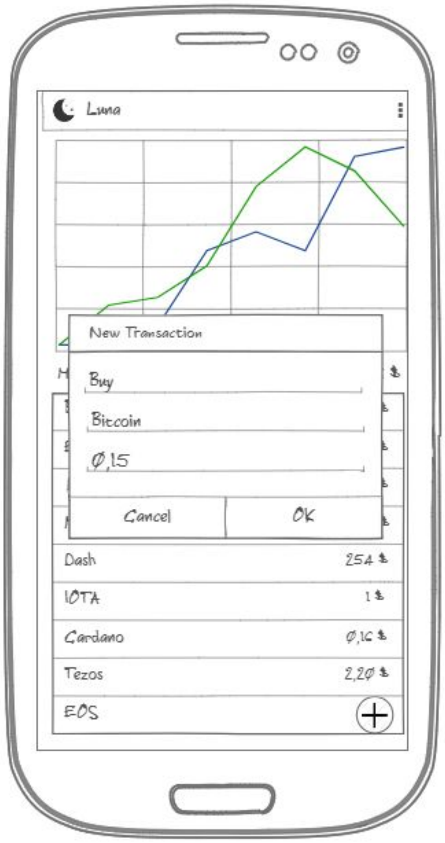
The detail screen shows detailed information of a selected crypto currency.

Screen 5 - Widget



The widget shows a selected crypto currency and its current price.

Screen 6 - New Transaction



You can add a new transaction with a FAB. On the transaction modal you can select existing crypto currencies from a dropdown list.

Key Considerations

How will your app handle data persistence?

App will use a Content Provider and a Shared Preferences to maintain local data.

Describe any edge or corner cases in the UX.

- App displays the navigation drawer where the user can navigate to three pages
- The user can add crypto currencies to his/her portfolio with a FAB
- On the new transaction modal the user can select transaction type and crypto currency from a dropdown list
- My portfolio page displays the user’s portfolio composition and portfolio history chart

- Market page displays the real time prices of the crypto currencies
- Detail page displays the detailed data of a selected crypto currency
- User can navigate back with the device’s or the toolbar’s back button

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

- **Butter Knife:** For view injection and to reduce boilerplate code
- **Retrofit 2:** for network API requests
- **Timber:** for logging
- **Firebase:** for analytics and crash reports

Describe how you will implement Google Play Services or other external services.

The application will use Firebase Crash Reporting and Google Analytics for Firebase which depend on Google Play Services.

Next Steps: Required Tasks

Task 1: Project Setup

Create and setup a new project:

- Create a New Project in Android Studio
- Configure libraries and add all necessary dependencies

Task 2: Data model classes

Create data model classes to handle all response data provided by API calls.

Task 3: API

Implement a service which provides all necessary network API requests.

Task 4: Data persistence

Add a content provider and shared preferences helper class to handle all locally stored data.

Task 5: Create the UI

Implement all the necessary activities:

- Create layouts
- Write the behaviour in code

Task 6: Google Play Services

Implement chosen services

Task 7: Widget

Implement a home screen widget.