

Mobile Assistant for Cryptocurrency Markets

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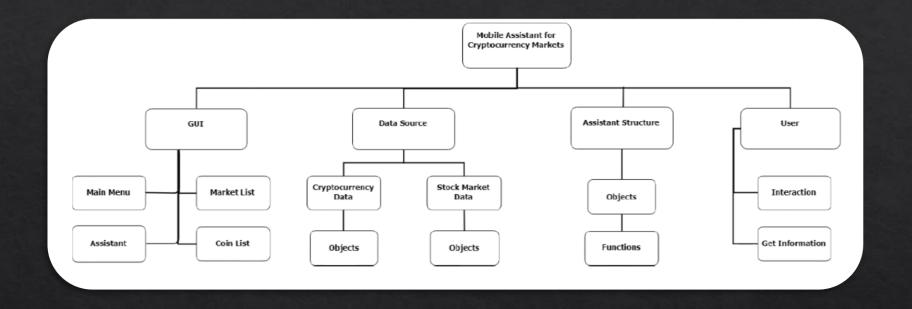
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Problem

- Displaying accurate prices of coins
- Support different stock markets
- ♦ Extraction of profitable exchange chains
- Keeping order books up to date

Solution

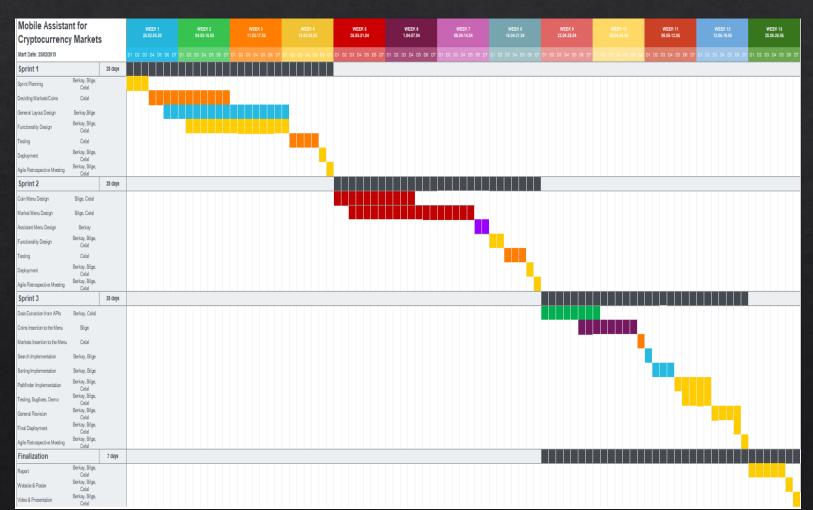


Building an application that assist users by providing updated values and exchange chains of cryptocurrencies.

Main Contribution

- Users can access various stock markets within one application
- Users can find different trading methods for a coin pair
- ♦ It is a mobile app so you can access anywhere anytime
- Plain and simple design

Workplan

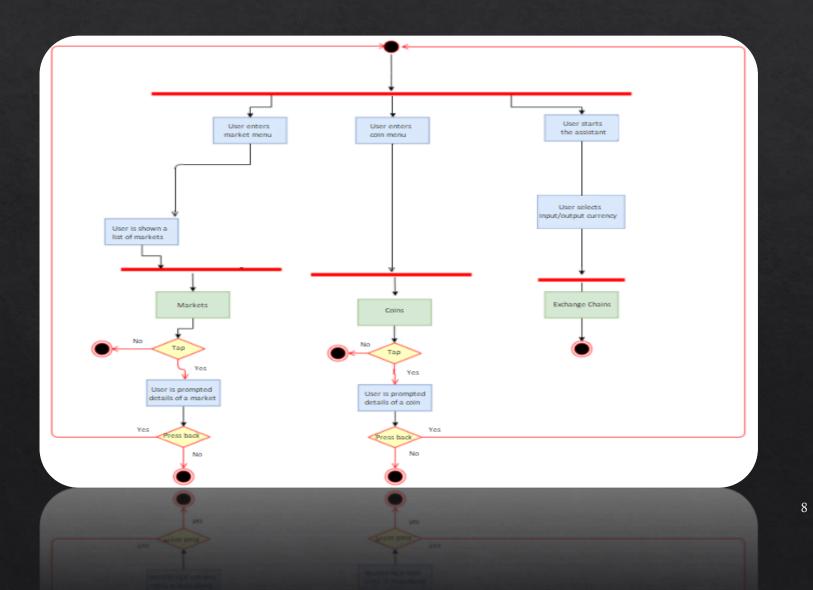


Environment and Tools Used

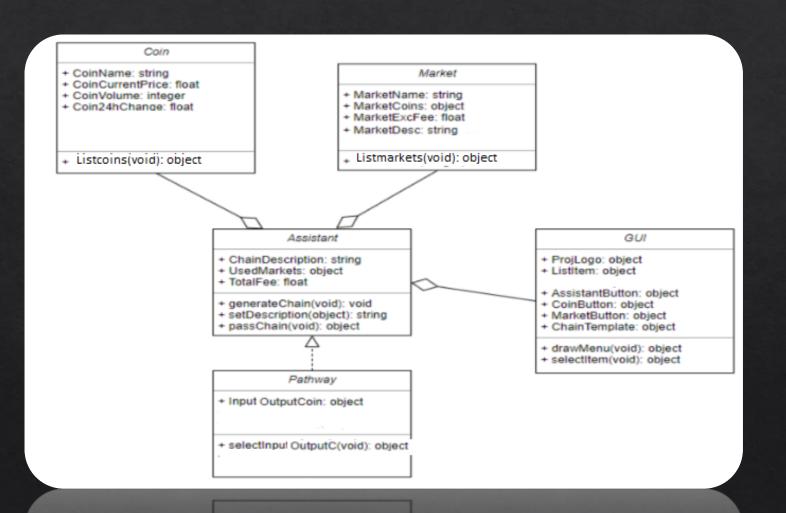
- Android Studio
- ♦ NodeJS
- ♦ React Native
- ♦ Atom.io



Materials and Methods



Materials and Methods

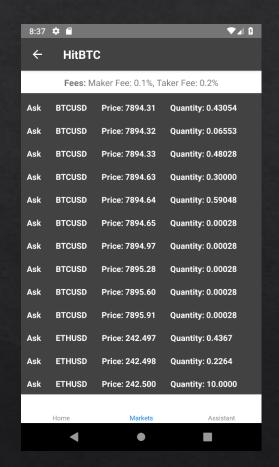


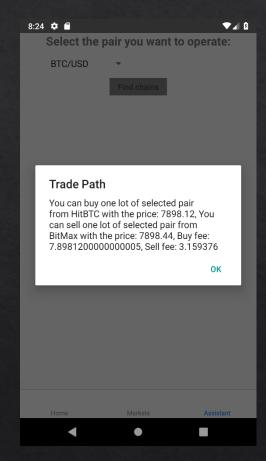
Success Criteria

Success Criterion	How to Measure
Efficiency of Exchange Paths	Checking if there are alternative routes in case a route is outdated
Accuracy of Prices	Checking prices from the market APIs directly
General Practicality	User feedbacks

Outputs







```
[
- {
    best_ask: "0.015952",
    best_bid: "0.015938",
    instrument_id: "LTC-BTC",
    product_id: "LTC-BTC",
    last: "0.015946",
    ask: "0.015938",
    bid: "0.015938",
    open_24h: "0.01496",
    high_24h: "0.016082",
    low_24h: "0.014663",
    base_volume_24h: "559824.834383",
    timestamp: "2019-06-10T15:56:31.6542",
    quote_volume_24h: "8563.8001277127"
},
```

```
[
    ask: "0.0000011894",
    bid: "0.00000011751",
    last: "0.00000011894",
    open: "0.00000011894",
    low: "0.00000011766",
    high: "0.00000011766",
    high: "0.00000012218",
    volume: "119176800",
    volumeQuote: "14.143654769",
    timestamp: "2019-06-10T15:53:35.376Z",
    symbol: "BCNBTC"
},
```

Challenges

- ♦ Every exchange market has its own API
- Some coin/market data are inaccessible via APIs
- ♦ Not every coin pair are directly exchangable

Future Work

- More markets can be supported
- More coin pairs for assistant menu
- Order books of different coins
- More optimization

Project Demo

Thanks for listening!

Questions?