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GitHub Username: lakshayswani

Virtua Stock

Description

Ever had a fear regarding investing your hard earned money in trading stocks. If yes, then this app could provide you with an interface to try out trading in stocks without any fear of losing your money. With virtual balance provided to your account, you can invest the money into

trading stocks and let your balance bloom. This is a platform for stepping into the stock market to get insights about how the Stock Trading works.

Intended User

For everyone wanting to step into the stock trading to multiply their assets.

Features

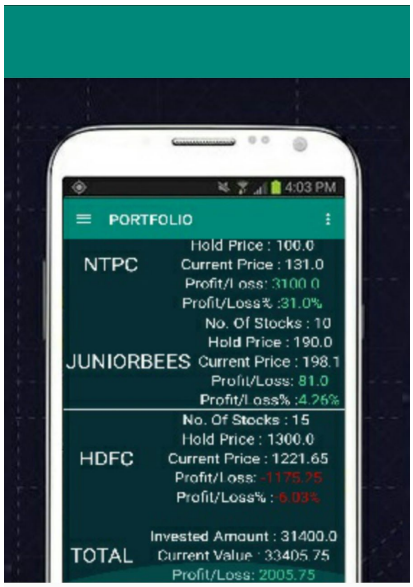
List the main features of your app. For example:

- Real Time Stocks Data
- Rest Web Services
- Notifications for Transactions
- Account & Portfolio Management

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.

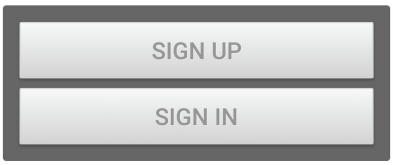
Screen 1



The Portfolio fragment provides stock by stock information like hold price,current price etc.

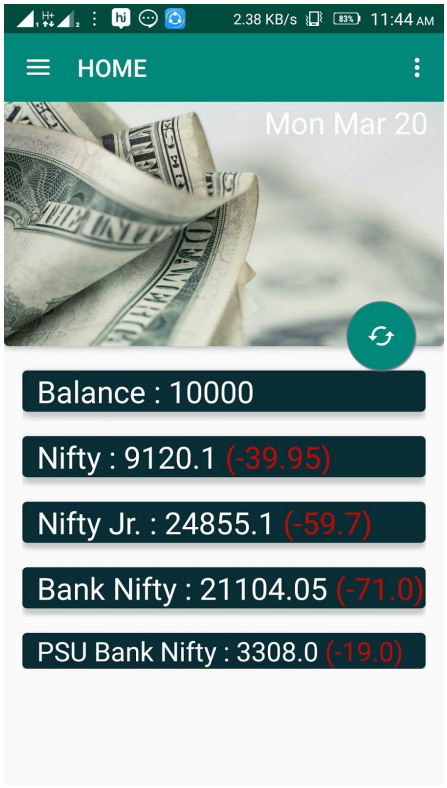
The basic slider activity defining the various functionalities of the application.

Screen 2



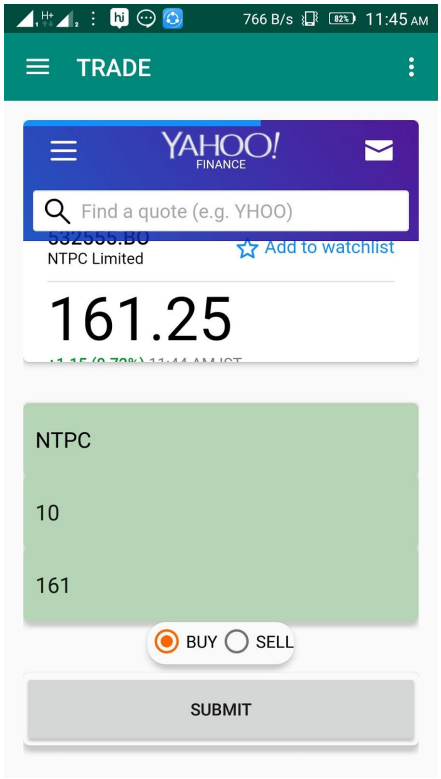
The sign in and sign up page to provide the account management of users.

Screen 3



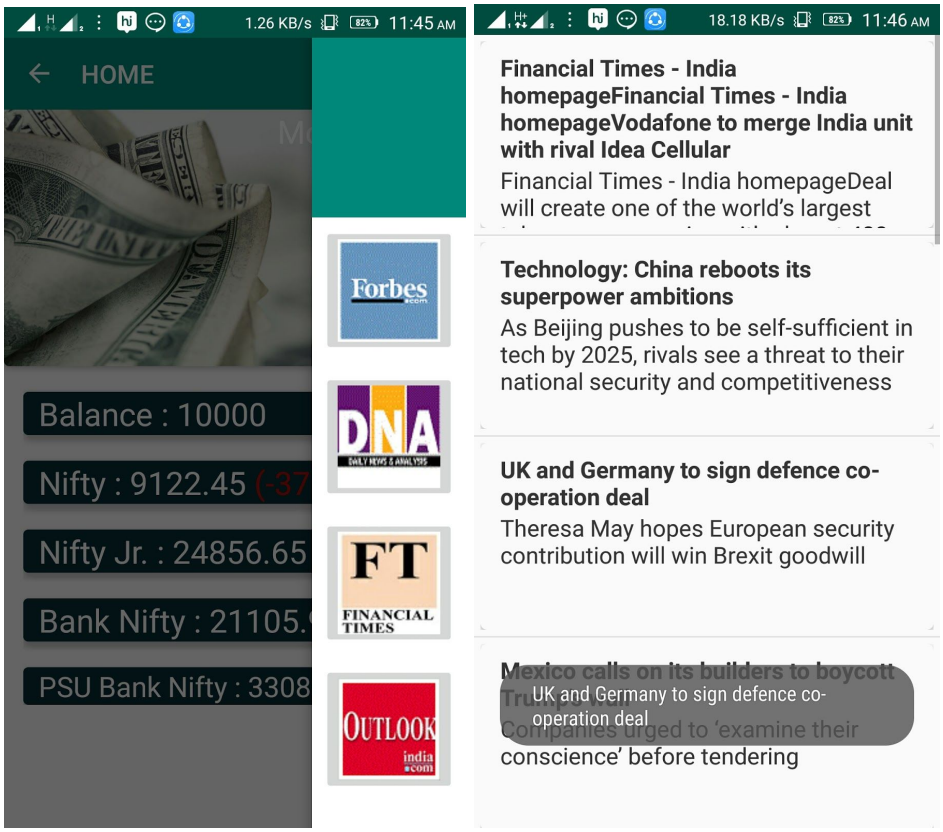
Home page providing the latest stock's current price.

Screen 4



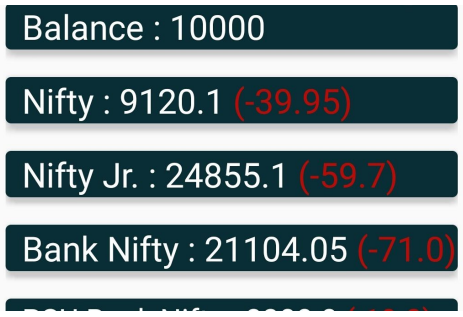
The transaction page where the users can buy & sell stocks.

Screen 5



News feed regarding the stock market available.

Screen 6



A widget that will show the list of stocks in which the user has invested.

Key Considerations

How will your app handle data persistence?

The data will be stored in the firebase or any online SQL database.

Describe any corner cases in the UX.

The transition from one activity to another is basic as provided by android libraries.

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

Picasso - For image caching
HTTP Core Apis - For connecting to various news feeds

Describe how you will implement Google Play Services.

Google play services will be used for authorization purpose for accessing the application.
Firebase Real Time Database will be used for storing and accessing the database.

Next Steps: Required Tasks

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

Task 1: Project Setup

1. Configuring Firebase for providing authorization and access to the application
2. Configuring the firebase real time database for storing and accessing data.
3. Configuring an online database for maintaining the portfolio of the users.
4. Gathering data for news feed from various Online News Services.

Task 2: Implement UI for Each Activity and Fragment

1. The splash activity
2. Authorization Activity

3. User Dashboard
4. Transaction Activity
5. Portfolio Management
6. News Feed
7. Widget for Displaying stocks invested in

Task 3: Database Connectivity

1. Managing database connectivity to provide transaction management.
2. Managing database for accessing the portfolio of the user.
3. Loader will be used to gather the data and push it to the views.
4. Intent service will be used to fetch data from the Finance APIs to update the stock price on request.

Task 4: News Feed Implementation

1. Parsing of the news feed which can then be used to display the latest news
2. Adding support for multiple news feeds.
3. Loader will be used to gather the data and push it to the views.

Task 5: Widget implementation

1. Displaying and updating the widget containing the list of stocks the user has invested in.

Add as many tasks as you need to complete your app.

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