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Stock Streakz

Description

Stock Streakz is an app that follows and tracks historical data of your favorite stocks. It calculates how many times a stock has gone up or down in a row and displays the information to you. It is useful for those who are curious about the status and well-being of a stock and also those who want to follow trends in the stock market.

Intended User

The intended user is a person interested in stocks and want to play or study the stock market.

Features

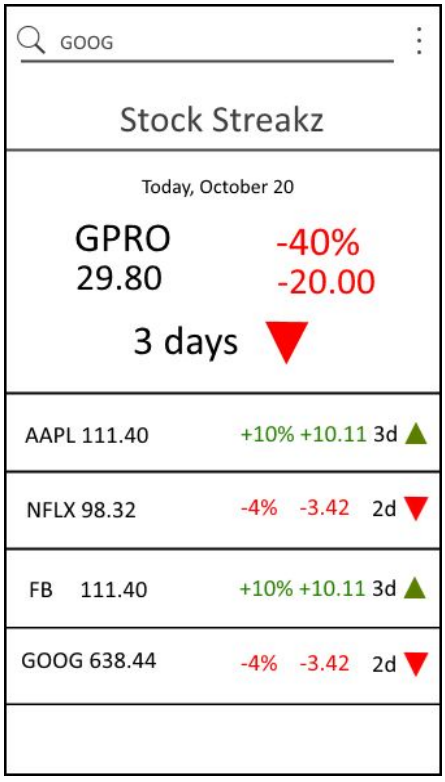
List the main features of your app. For example:

- Saves favorite stocks to database
- Implements a widget that updates your stocks daily on market close.
- Displays information about current stock streaks.
- Allows you to share statistics with friends.

Phone User Interface Mocks

Screen 1 - Phone MainActivity Portrait

This is the MainActivity UI of portrait mode. Searchbar is at the top, The overflow menu will contain ways to sort the list. Click on an item will take you to DetailActivity. The first item is bigger than the rest to give it a home page type of feeling.

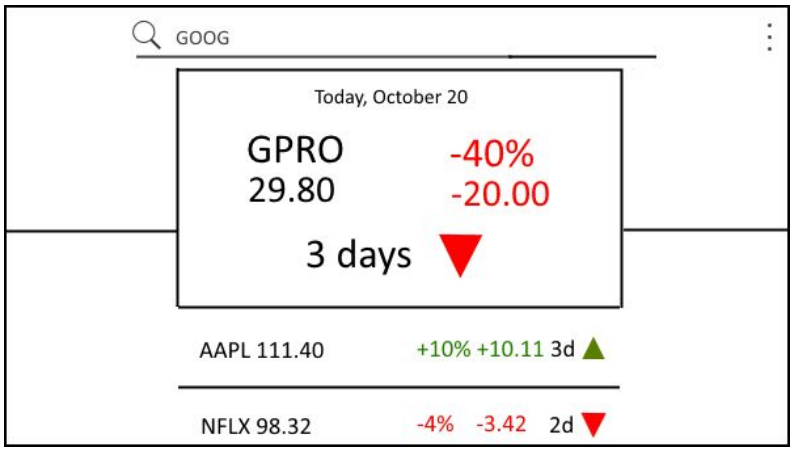


Screen 2 - Phone DetailActivity Portrait

This is the UI for the DetailActivity in Portrait mode. The back arrow goes back to MainActivity and the share button in the top right will allow you to share the information with other people.

Screen 3 - Phone MainActivity Landscape

This is the MainActivity UI in landscape. The first item of the list hovering over the toolbar to give a sense of digital surfaces.



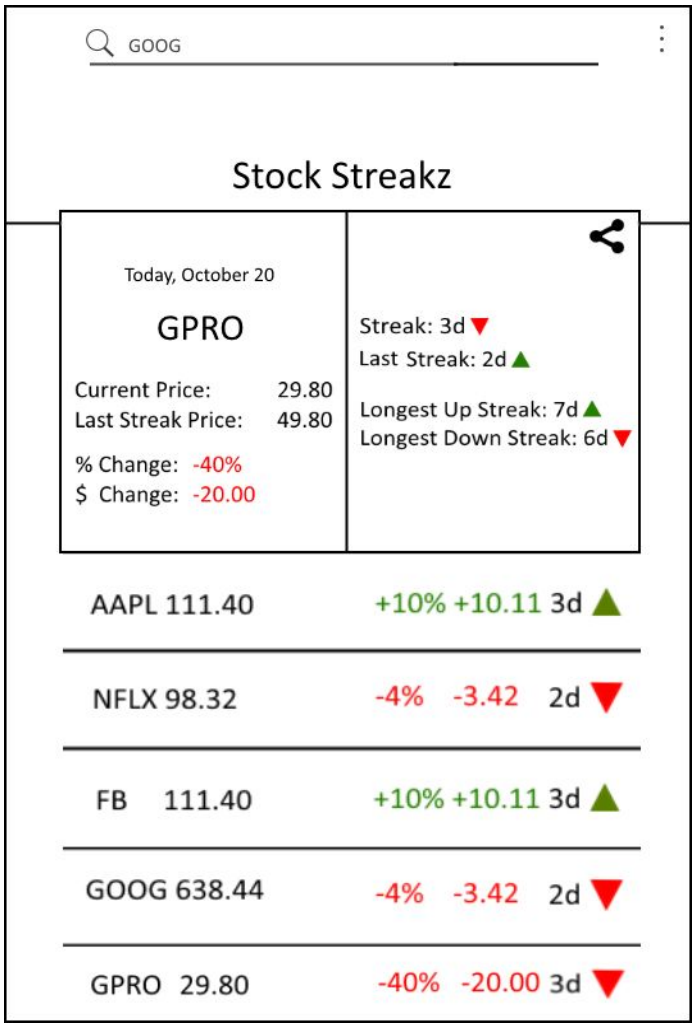
Screen 4 - Phone DetailActivity Landscape

This is the UI for the DetailActivity in Landscape mode.

Tablet User Interface Mocks

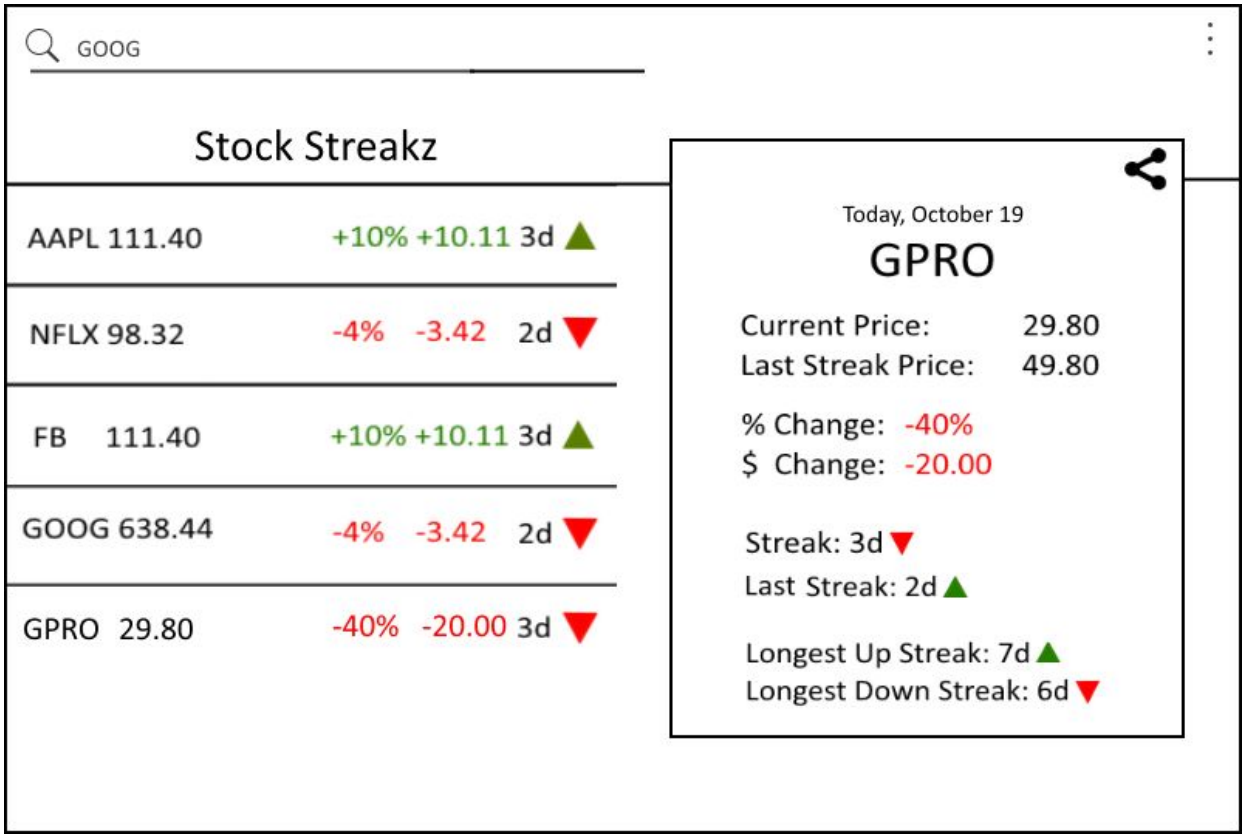
Screen 1 - Tablet MainActivity Portrait

This is the UI for the MainActivity in portrait mode. The search bar is at the top and the overflow will button be used to sort the list. There is no DetailActivity as the top portion that contains the share button is the detail view.



Screen 2 - Tablet MainActivity Landscape

This is the UI for the MainActivity in landscape mode. The search bar is at the top and the overflow button will be used to sort the list. There is no DetailActivity as the right portion that contains the share button is the detail view.



Key Considerations

How will your app handle data persistence?

This app will use a content provider that will save data to the Sqlite database.
When you add a stock symbol, the stock's information such as % change and $ change will be stored here.

Example Table Schema:
SYMBOL STREAK %CHANGE $CHANGE

Describe any corner cases in the UX.

There are currently no corner cases.

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

1. Yahoo Finance API Wrapper Library by Sstrickx
2. Google Play Services: Admob
3. Google Play Services: Analytics

Next Steps: Required Tasks

Task 1: Project Setup

- Configure libraries and dependencies in gradle.
- Research guides and how to use API.

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainFragment
- Build UI for MainFragment's List Item (first Item type and normal item type)
- Build UI for DetailFragment.
- Build UI for Collection Widget
- Create Transitions for Activities

Task 3: Query Finance API

- Play around and figure out how to query information we need.
- Implement IntentService for querying if needed.
- Display Information in UI via CursorLoader.

Task 4: Store Information in Database

- Implement ContentProvider and Contract Class.
- Store information in database. Wipe out old data when new data comes in.

Task 5: Create Widget and SyncAdapter

- Create collection widget that basically shows information from the MainFragment.
- Create SyncAdapter and configure to sync at 4:00 pm EST which is Market Close.

Task 6: Use Google Admob and Analytics

- Create an Interstitial Ad to be shown upon App exit.
- Use Analytics to monitor user actions and crashes that occur.