

Assignment #4 - Android Mobile App Exercise

Total points: 15 points

1) App Icon and welcome Screen (0.5 points)

- a) App Icon - 0.25 points
- b) Splash screen - 0.25 points

2) Home Screen (2.5 points)

- a) Spinner on initial load - 0.25 points
- b) Displaying current date - 0.25 points
- c) Showing "Portfolio" and "Favorites" sections - 0.25 points
- d) Displaying correct cash balance and net worth under portfolio – 0.25 points
- e) Displaying rows correctly with desired layout - 0.25 points
- f) Correct change in price, symbol, and color for each section - 0.25 points
- g) Displaying company name if stock not in portfolio - 0.25 points
- h) "Powered by Finnhub" text, and direct to www.finnhub.io - 0.25 points
- i) Correct UI Styling - 0.25 points
- j) Price should refresh every 15 seconds when market is open - 0.25 points

3) Search and Autocomplete (1.5 points)

- a) A search icon that will open search bar and transform navigation bar style on click. The search bar will hide when the user clicks back button – 0.25 points
- b) Correct auto suggestion results being displayed - 0.5 points
- c) Correct UI layout for auto suggestion results - 0.5 points
- d) Click selects the suggestion result and populates search bar - 0.25 points

4) Stock Detail Screen (2.5 points)

- a) Spinner/Progress bar on initial load - 0.25 points
- b) Stock ticker as title, company logo, company name, change in price and current price should have correct styling - 0.25 points
- c) Bookmark button displayed in correct state - 0.25 points
- d) Portfolio section with correct message with 0 or more shares, and trade button in desired layout - 0.75 points
- e) Stats section in desired layout - 0.25 points
- f) About section in desired layout - 0.25 points
- g) Correctly shows and load company peers – 0.25 points
- h) Toast message when toggling favorites - 0.25 points

5) HighCharts Hourly and Historical (1 point)

- a) Correctly load and displays HighCharts with the correct ticker - 0.25 points
- b) Allow interaction with the HighCharts graph, with correct ticker displayed in detail on click - 0.25 points
- c) Correctly use Tabs for each charts - 0.25 points
- d) Use correct icons for two charts - 0.25 points

6) Insights Section (1.5 points)

- a) Correctly layout and display Social Sentiment table – 0.5 points
- b) Correctly load and display Recommendation Trends chart – 0.25 points
- c) Proper axes labels and legend for Recommendation Trends Chart - 0.25 points
- d) Correctly load and display Historical EPS Surprises chart – 0.25 points
- e) Proper axes labels and legend for Historical EPS Surprises Chart - 0.25 points

7) News Section (1.75 points)

- a) Correct layout for the first news card, image should be cropped with rounded corners for image and news card - 0.25 points
- b) Correct layout for the rest of the news cards, image should be cropped with rounded corners - 0.25 points
- c) Time ago field should be calculated and displayed correctly - 0.25 points
- d) Dialog with title, description and icons having correct styling on click - 0.25 points
- e) Correct link and open action (in chrome) – 0.25 points
- f) Correct Twitter link and open action (in chrome) – 0.25 points
- g) Correct Facebook link and open action (in chrome) – 0.25 points

8) Trading Sheet (1.5 points)

- a) Correct UI layout - 0.25 points
- b) Correct component displayed - 0.25 points
- c) Shows Numeric Keyboard - 0.25 points
- d) Calculation done in real time for trading amount - 0.25 points
- e) Congratulations dialog on trading success - 0.25 points
- f) Toast message on 5 error cases - 0.25 points

9) Portfolio and Favorite functionality (2 points)

- a) Stocks should show/hide on the home screen when added to / removed from Favorite in stock detail screen - 0.25 points
- b) Stocks should show/hide in portfolio section after trading is done in trading sheet - 0.25 points

- c) Stocks should change shares owned amount in both portfolio and favorites sections after trading is done in trading sheet - 0.25 points
- d) Stocks buy/sell should change money in the wallet correctly - 0.25 points
- e) Able to reorder stocks in Portfolio, and Favorites section - 0.25 points
- f) Able to remove stocks in Favorites section only by swipe to delete, should no longer be favorited in stock detail screen - 0.25 points
- g) Data should persist after quitting the app and relaunching. The correct favorite, portfolio, and order in list should be displayed - 0.5 points

10) NodeJS endpoint (0.25 points)

- a) A link on GitHub page to link to your NodeJS backend used for this homework- 0.25 points