Homework #9 - 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