Homework #9 - Android Mobile App Exercise

Total points: 15 points

1) App Icon and welcome Screen (0.75 point)
   a) App Icon - 0.25 point
   b) Splash screen - 0.5 point

2) Home Screen (3.25 points)
   a) Fetching Data… spinner on initial load - 0.25 point
   b) Home screen with title "Stocks", should be fixed at the top when scrolling - 0.25 point
   c) Displaying current date - 0.25 point
   d) Showing "Portfolio" and "Favorites" sections - 0.5 point
   e) Displaying rows correctly with desired layout - 0.5 point
   f) Correct change in price, symbol, and color - 0.5 point
   g) Displaying company name if stock not in portfolio - 0.25 point
   h) "Powered by Tiingo" text, and direct to www.tiingo.com - 0.25 point
   i) Correct UI Styling - 0.25
   j) Price should refresh every 15 seconds when market is open - 0.25 point

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 point
   b) Do not auto suggest when entering less than 3 characters - 0.25 point
   c) Correct auto suggestion results being displayed - 0.5 point
   d) Correct UI layout for auto suggestion results - 0.25 point
   e) Click selects the suggestion result and populates search bar - 0.25 point

4) Stock Detail Screen (1.75 points)
   a) Fetching Data… spinner on initial load - 0.25 point
   b) Stock ticker as title, company name, change in price and current price should have correct styling - 0.25 point
   c) Bookmark button displayed in correct state - 0.25 point
   d) Portfolio section with correct message with 0 or more shares, and trade button in desired layout - 0.25 point
   e) Stats section in desired layout - 0.25 point
   f) About section with text, "show more…" or "show less" button in desired layout - 0.25 point
   g) Toast message when toggling favorites - 0.25 point

5) HighCharts (1.5 points)
   a) Correctly load and displays HighCharts with the correct ticker - 0.75 point

b) Allow interaction with the HighCharts graph, with correct ticker displayed in detail on click - 0.75 point

6) News Section (1.75 points)
a) Correct layout for the first news card, image should be scaled, with rounded corners for image and news card - 0.25 point
b) Correct layout for the rest of the news cards, image should be scaled with rounded corners - 0.25 point
c) Time ago field should be calculated and displayed correctly - 0.25 point
d) Dialog with image, title and icons having correct styling on long press - 0.5 point
e) Open chrome when clicking on news card, or clicking on the option in the dialog - 0.25 point
f) Share on Twitter when clicking on the option in the dialog, with the correct message - 0.25 point

7) Trading Sheet (1.5 points)
a) Correct UI layout - 0.25 point
b) Correct component displayed - 0.25 point
c) Shows Numeric Keyboard - 0.25 point
d) Calculation done in real time for trading amount - 0.25 point
e) Congratulations dialog on trading success - 0.25 point
f) Toast message on 5 error cases - 0.25 point

8) Portfolio and Favorite functionality (2.75 points)
a) Stocks should show/hide on the home screen when added to / removed from Favorite in stock detail screen - 0.5 point
b) Stocks should show/hide in portfolio section after trading is done in trading sheet - 0.5 point
c) Stocks should change shares owned amount in both portfolio and favorites sections after trading is done in trading sheet - 0.25 point
d) Able to reorder stocks in Portfolio, and Favorites section - 0.5 point
e) Able to remove stocks in Favorites section only by swipe to delete, should no longer be favorited in stock detail screen - 0.5 point
f) Data should persist after quitting the app and relaunching. The correct favorite, portfolio, and order in list should be displayed - 0.5 point

9) NodeJS endpoint (0.25 point)
a) A link on GitHub page to link to your NodeJS backend used for this homework. The link **must point to a different** REST API than homework #8 - 0.25 point