

Homework #9 - iOS 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 shrink in size when scrolling up - 0.25 point
- c) Displaying current date - 0.25 point
- d) Showing "Portfolio" and "Favorites" section headers - 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 - 0.25 point

3) Search and Autocomplete (1.5 points)

- a) A search bar that will hide when the user scrolls up, and will transform navigation bar style on click. – 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) Can select suggestion results - 0.25 point

4) Stock Detail Screen (2 points)

- a) Fetching Data... spinner on initial load - 0.25 point
- b) Stock ticker as title, should shrink in size when scrolling up - 0.25 point
- c) Bookmark button displayed in correct state - 0.25 point
- d) Correctly displays company name, current price and change in price - 0.25 point
- e) Portfolio section with correct message with 0 or more shares, and trade button in desired layout - 0.25 point
- f) Stats section in desired layout - 0.25 point
- g) About section with text, "show more..." "show less" button in desired layout - 0.25 point
- h) Toast message when bookmarking, unbookmarking - 0.25 point

5) Highcharts (1.5 points)

- a) Correctly loads and displays Highcharts with the correct ticker - 0.75 point

- b) Interactable 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 cropped, not stretched- 0.25 point
- b) Correct layout for the rest of the news cards, image should be cropped, not stretched - 0.25 point
- c) Time ago field should be calculated and displayed - 0.25 point
- d) Correct layout for news card on long press, background should be white, rounded corner, no bugged UI - 0.25 point
- e) Context menu with correct label (icons) on long press - 0.25 point
- f) Open safari when clicking on news card, or clicking on the option in the context menu - 0.25 point
- g) Share on Twitter when clicking on the option in the context menu, 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 page on trading success - 0.25 point
- f) Toast message on 5 error cases - 0.25 point

8) Portfolio and Favorite functionality (2.5 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) "Edit" and "Save" button on top right of home screen, correct behavior on click - 0.25 point
- e) Able to reorder stocks in Portfolio, and Favorites section - 0.25 point
- f) Able to remove stocks in Favorites section by edit and swipe to delete, should non longer be favorited in stock detail screen - 0.25 point
- g) 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 - 0.25 point