

# 7COMP 4513

## Assignment #1: React (*version 1*)

Due Monday February 26, 2018 at midnightish

Changes in **yellow** or **green**

### **Overview**

This assignment provides an opportunity for you to demonstrate your ability to generate a mobile-first, single-page application using React.

### **Beginning**

Use the same techniques covered in the second React lab for this assignment. Use as well the Bulma CSS framework, which will give you the responsive layout to look good at mobile sizes. I will mark the assignment in a browser size similar to a portrait-sized mobile phone.

The current assignment specification and the data files can be found at <https://github.com/rconnolly/comp4513-w2018-assign1.git>.

### **Submitting**

For me to mark your assignment, you will need to share your workspace with me once it is complete. To do so, click the Share button (it has a gear icon) in the upper-right part of the Cloud9 workspace. Invite me via my email ([rconnolly@mtroyal.ca](mailto:rconnolly@mtroyal.ca)) and be sure to give me RW access (otherwise I can't run anything).

### **Grading**

The grade for this assignment will be broken down as follows:

Visual Design and Styling	20%
Programming Design	15%
Functionality (follows requirements)	65%

### **Data Files**

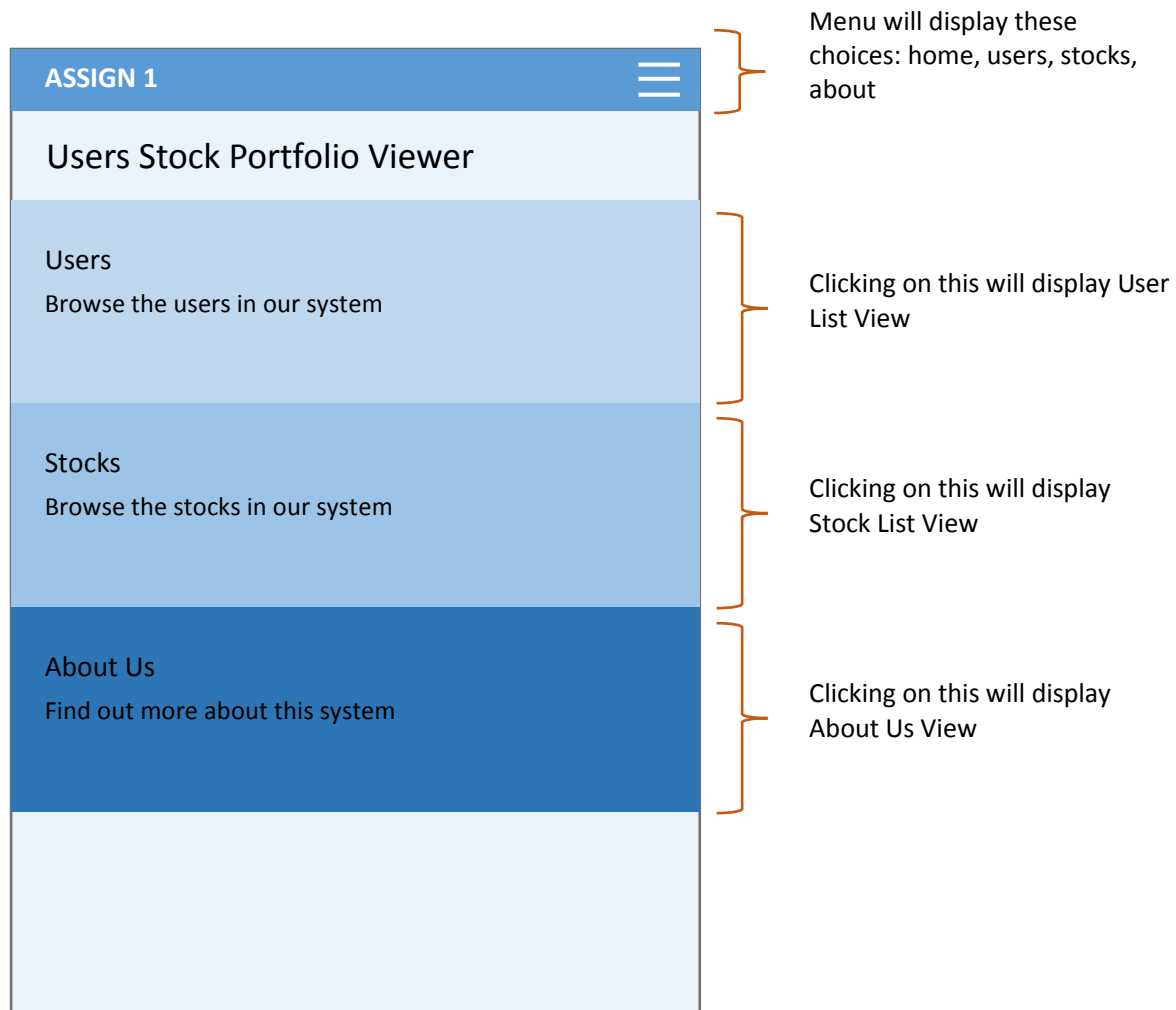
You have been provided with two JSON files, `stocks.json` and `userStockPortfolio.json`. The first represents a list of about 70 stocks. The second is a list of stocks that users own (that is, portfolios). You can load a JSON file quite simply in React via a single `import` statement.

User information will be retrieved via the `https://jsonplaceholder.typicode.com/users` web service.

## Requirements

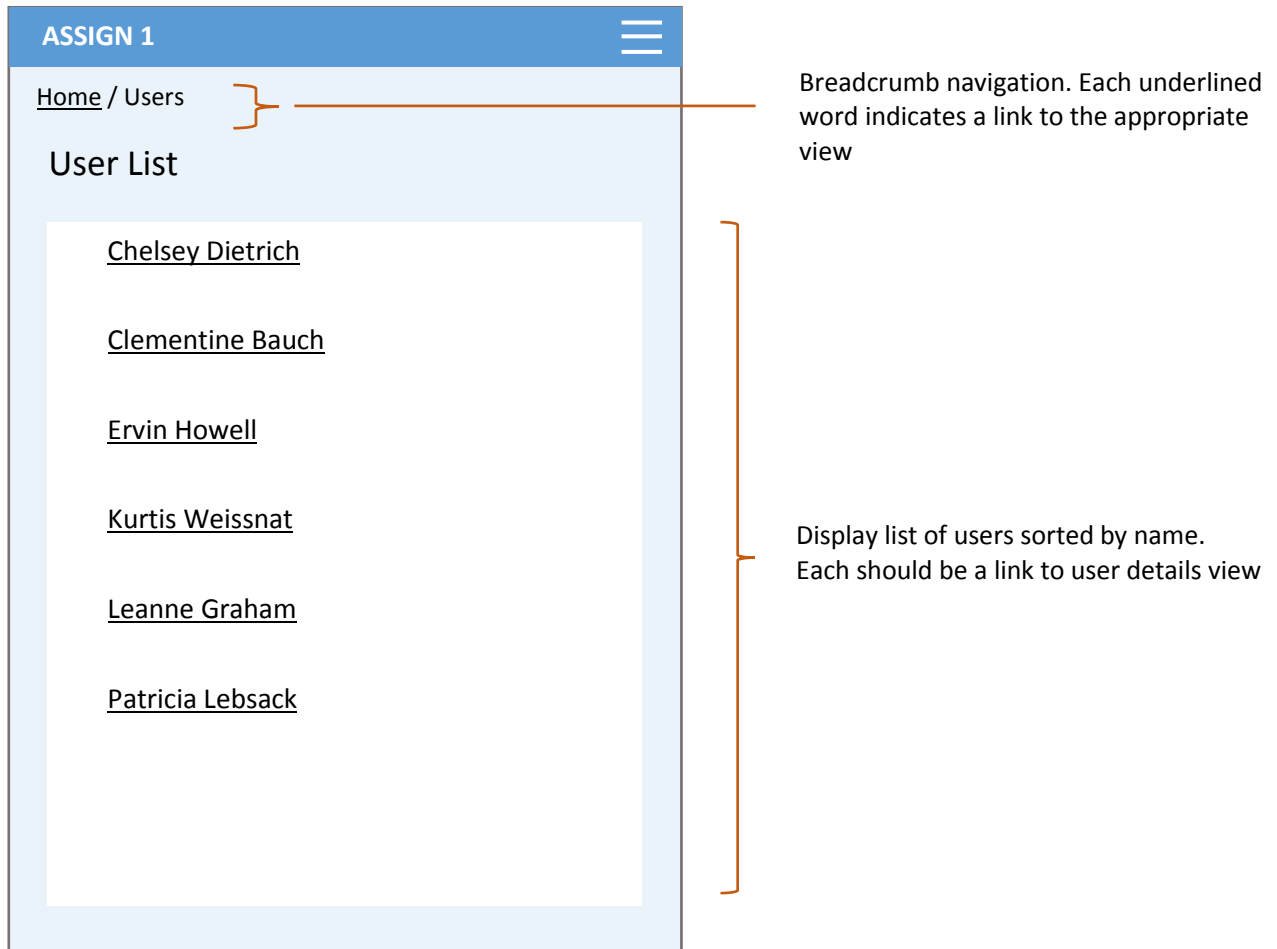
1. You must make use of the create-react-app starting files and structure.
2. You must use the Bulma CSS Framework.
3. This assignment consists of six views (remember this is a single-page application, so it is best to think of the assignment consisting of different views). In the remainder of this assignment, I have provided a sketch of the basic layout of each view. They do not show the precise styling: indeed I will be expecting your pages to look significantly more polished and attractive than these sketches.
4. When your site loads, it should display the Home Page View. When the user selects a Home links (from breadcrumb or drop-down menu in upper-right corner), it should display this Home Page View. Again, I would expect your version to be substantially more attractive than this sketch, perhaps adding images and icons.

### Home Page View



- When the user selects a Users links (from home page, breadcrumb, or drop-down menu in upper-right corner), it should display the User View. The data comes from the web service.

## User List View



6. When the user selects a single user, it should initially display the Single User View. This view has two subviews: Details View and Portfolio View, switchable via the Details/Portfolio tabs. Data comes from the users web service and the `userStockPortfolio.json` file.

## Single User – Detail View

**ASSIGN 1**

[Home](#) / [Users](#)

Leanne Graham

Details

Portfolio

Id: 5

Email: Sincere@april.biz

Phone: 1-770-736-8031 x56442

Address

Company

- Will display either the user details (shown) or the Portfolio Information (next screen)
- This is a sketch so I would expect these to be formatted in a nice way
- Clicking on these will open and display the address or company information for the user

## Single User – Portfolio View

**ASSIGN 1**

[Home](#) / [Users](#)

Leanne Graham

Details

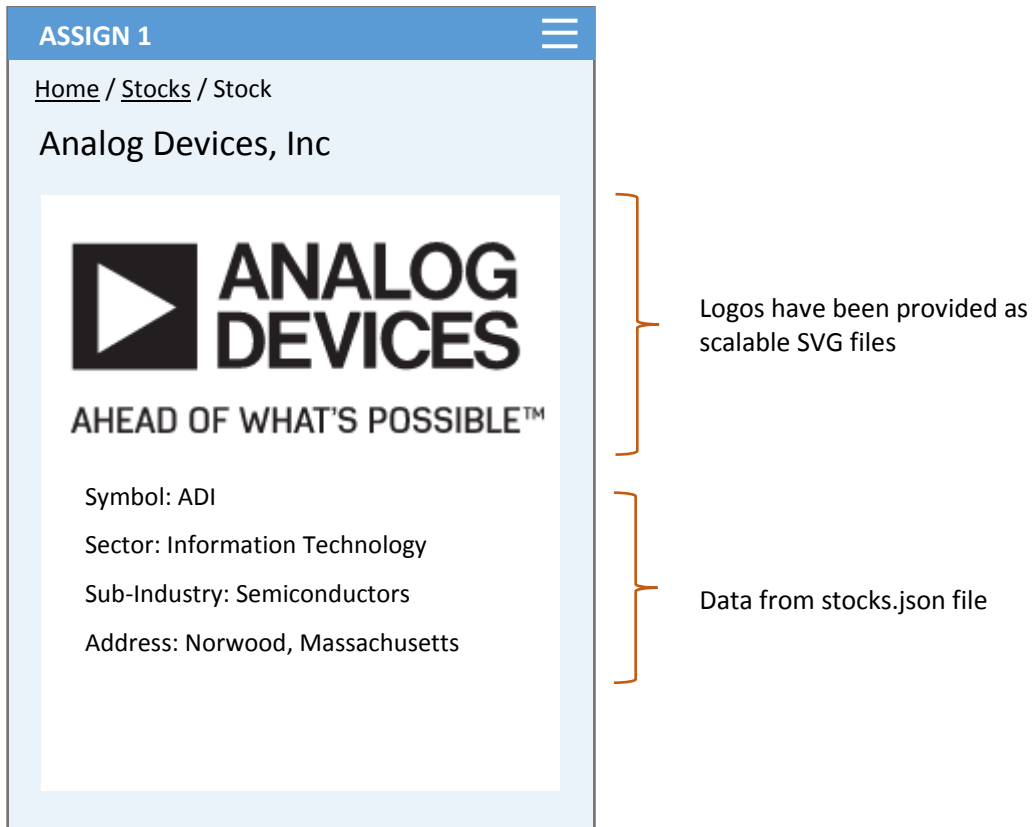
Portfolio

Symbol	Name	Amount
<a href="#">AMZN</a>	Amazon.com Inc	1000
<a href="#">ADI</a>	Analog Devices, Inc	700
<a href="#">AMAT</a>	AMAT	650
<a href="#">CTXS</a>	Citrix Systems	500
<a href="#">CB</a>	Chubb Limited	300

- Clicking on these headings will change the sort order (to simplify just sort ascending when clicked).
- Display list of stocks for that user, with the symbol being a link/route to stock info page/component

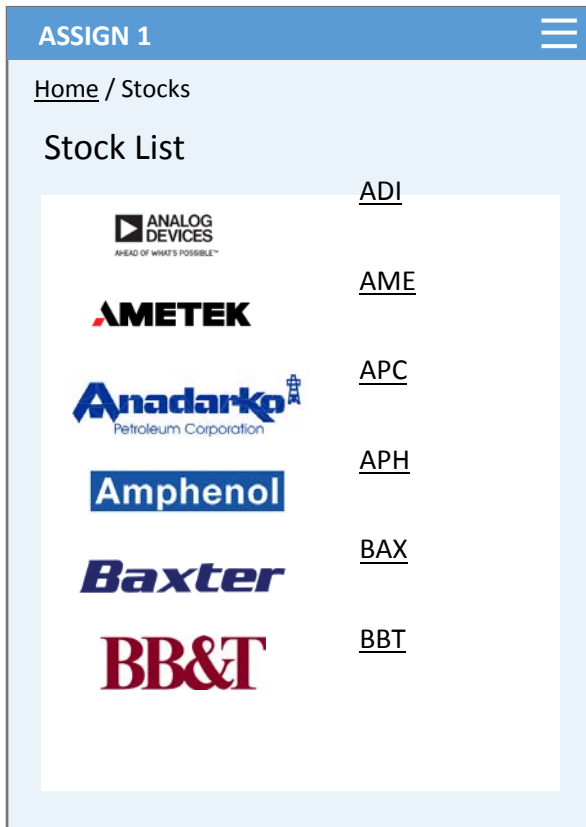
7. When the user clicks on a stock, it should display the Single Stock View. Data comes from the `stocks.json` file.

## Single Stock View



- When the user selects a Stocks links (from home page, breadcrumb, or drop-down menu in upper-right corner), it should display the Stock List View.

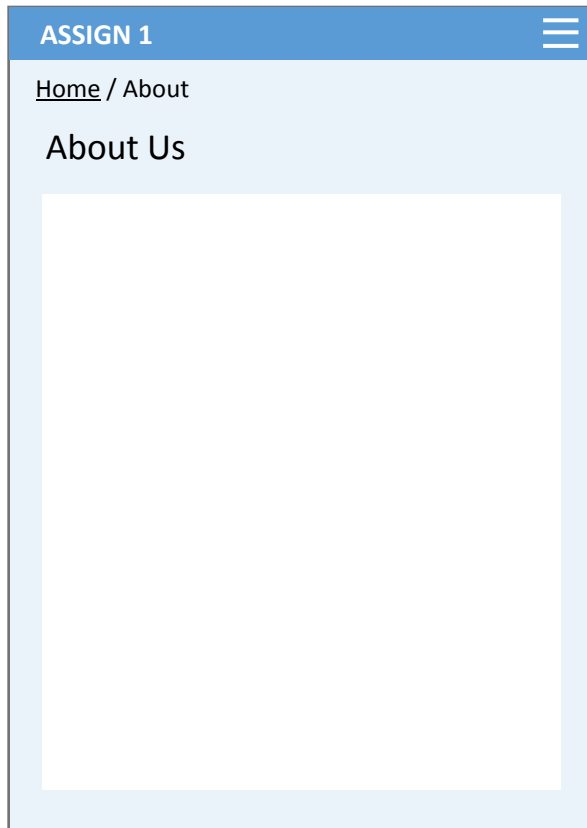
## Stock List View



Display list of stocks sorted by symbol name.

9. When the user selects an About link, it should display the About Us View.

## About Us View



Tell us who you are, what technologies were used and what tools and packages you have used.