**Front-End Developer Challenge and Questions**

We realize there are often multiple solutions or answers to the same questions and to the challenge in particular. We do not necessarily have “right or wrong” in mind, we are simply looking to learn a bit about you, and your approach to development.

**Questions:**

What front-end component libraries or frameworks have you used besides bootstrap?

Materialize, Cardinal, Pure

What tools would you implement to enforce code quality rules and standards?

Eslint, JSHint, JSLint, Flow

What HTML templating languages or engines have you used?

Mustache, Underscore, Handlebars

Which code related blogs or sites do you read regularly?

Hackernoon.com, Stackoverflow, Medium, Udemy

In Sass, what is the significance of using an underscore at the beginning of a sass file name?

It lets the sass know it is a partial file, and it should not be generated into css

Name a few (npm) node modules that you think are most useful?

Lodash,moment js, gulp, jshint, joi

Given the option to choose Angular, React or Vue.js for a new project which would you choose and why? What type of requirements might affect your decision to use one over the other?

React will be first preference because one of its feature that it let’s you compose views, rendering speed and being able to use it with any framework. Only thing in react is that it has a learning curve and angular on the other hand is full blown MVC where React is just UI library so developer need to learn Redux or Flux based frameworks and also how to compose the components.

If you were referred to an unfamiliar node project repo, what file or files would you first look to, to determine the commands to run, build and test the project?

Package.json, scripts will show what commands are available, webpack.config.js to see how things are wired, and application entry js file app.js or index to follow the trail.

What is the benefit of using the HTML ‘nav’ element vs. a div with the class of .nav?

Nav is a semantic element so just by looking at give the information

What code related framework, library or language do you want to learn next?

Vue as it support both one way data and two way data binding and Vue is easier to learn.

**Challenge:**

Utilizing React and Bootstrap, create a single, web page that collapses responsively from desktop to mobile, where the desktop and mobile breakpoints match the wireframe images provided.

The carousel at the top of the page should contain three slides – which can all display the same content, but the carousel itself should be functional in that clicking left or right will animate to the previous or next slide.

Additionally, in the mobile view, the “hamburger” (three lines icon) menu button should collapse and expand the navigation.

All other components are only present for layout purposes and do not need to function ie. navigation links do not need to lead anywhere, search does not need to function.

Utilize React for all functionality - do not include jQuery.

Bootstrap must be imported via Sass and compiled to CSS (Do not use CDN links for styles). Take care to demonstrate the use of modern, semantic HTML elements and CSS classes, and Sass style nesting in any custom CSS.

**Challenge Setup**:

Use Create React App to create your project and generate the output to a /dist folder using the build script.

Combine all of your challenge directory/files as well as this document with completed answers in a single .zip file and deliver back to us as soon as you have completed them.

Please provide your entire directory structure (with the exception of node\_modules) to keep total delivery size small.

Feel free to contact us with any questions and thank you for taking the time to complete these items!