**REACT**

What are the benefits of using ReactJS?

React is *fast*. Apps made in React can handle complex updates and still feel quick and responsive.

React is *modular*. Instead of writing large, dense files of code, you can write many smaller, reusable files. React's modularity can be a beautiful solution to JavaScript's [maintainability problems](https://en.wikipedia.org/wiki/Spaghetti_code).

React is *scalable*. Large programs that display a lot of changing data are where React performs best.

React is *flexible*. You can use React for interesting projects that have nothing to do with making a web app. People are still figuring out React's potential. [There's room to explore.](https://medium.mybridge.co/22-amazing-open-source-react-projects-cb8230ec719f#.o5umedb6v)

React is *popular*. While this reason has admittedly little to do with React's quality, the truth is that understanding React will make you more employable.

JSX elements are treated as JavaScript expressions. They can go anywhere that JavaScript expressions can go.

ReactDOM is the name of a JavaScript library. This library contains several React-specific methods, all of which deal with [the DOM](http://www.w3schools.com/js/js_htmldom.asp) in some way or another.

ReactDOM.render is the most common way to renderJSX. It takes a JSX expression, creates a corresponding tree of DOM nodes, and adds that tree to the DOM. That is the way to make a JSX expression appear onscreen.

2. What is the significance of the React.createClass() method?

- Creates a component

3. What is the significance of the ReactDOM.render() function?

- Displays the components or the HTML you generate onto the page

4. What is JSX? Why does React recommend it? (Hint: See documentation on "Displaying Data")

*JSX* is a syntax extension for JavaScript. It was written to be used with React. JSX code looks a lot like HTML.

- It is Javascript XML

- And it allows you to treat HTML content as being totally Javascript developed. It bundles HTML and Javascript

5. How do I incorporate a JSX script into my HTML? (Hint: See documentation on "Displaying Data")

- Include a <text/babel> script (this compiles the vanilla javascript)

6. What is Babel? And what role does it play in converting JSX into vanilla Javascript?

- Babel is a transpiler that converts JSX into plain Javascript. It allows us to create more advanced Javascript in easy syntax.

7. What is the significance of { } curly braces in JSX? (Hint: See "JSX in Depth")

- {} braces convert into Javascript variables

8. What is the difference between a prop and a state? (Hint: See articles on "Thinking in React", "Interactivity and Dynamic UIs")

- Prop is a static unchanging aspect to a component. (the "name" of the "chat box")

- State is constantly changing (whether chat is open or closed)

9. Create a Simple Hello World Application with React

Part II:

- Note at least 1-3 questions, curiosities, or mysteries you stumble into as you tread through the ReactJS documentation

Part III:

- If you finish early, begin reading and working through the ReactJS Tutorial: https://facebook.github.io/react/docs/tutorial.html