

Rachel VanHorn

Week 13 FE Research

Prompts

1. What are some competitors/alternatives to React? What makes them different? List at least 2.

- Two competitors to React are Vue and Angular. Angular has a larger core library where React needs to have extra modules or components added to it if you are looking for different functionality. Angular also uses TypeScript where React uses Javascript or JSX. Vue and React both use JavaScript or JSX, but it is better for smaller apps that are less complex. Vue is also supposed to be easier to learn than React and easier to work into existing projects.

2. What is React's virtual DOM, why is it important, and how does it work?

- The virtual DOM is a virtual representation of the actual DOM of the application. When changes are made to your app, React's virtual DOM is changed and then compared to the actual DOM and React figures out the most efficient way to update the actual DOM to match the virtual one that has had changes made. React only updates the objects in the actual DOM that have changed in the virtual DOM. It avoids having the actual DOM get re-rendered completely with every change. This allows applications to be more efficient and quicker.

3. What is Webpack and what problem does it solve?

- Webpack is a module bundler that combines all the modules in your app into a bundle that can be read by a browser. The problem it solves is that websites have gotten more complicated than just having some HTML, CSS and a little Javascript and so browsers have a hard time wading through all that to run your app. Webpack bundles all the JavaScript files and other app components like CSS and images together so that they can be inserted into the HTML file and run on a browser

Sources

<https://blog.back4app.com/top-10-react-alternatives/>

<https://www.codeinwp.com/blog/angular-vs-vue-vs-react/#gref>

<https://www.codecademy.com/article/react-virtual-dom>

<https://adhithiravi.medium.com/react-virtual-dom-explained-in-simple-english-fc2d0b277bc5>

<https://webpack.js.org/concepts/>

<https://www.scaler.com/topics/react/webpack-in-react/>