Research the differences between jQuery and React, and find out what types of applications they can create. Give an example where each tool would be a better choice than the other. Comment on at least two of your classmates' posts.

jQuery and React are both widely used in web development but have different approaches and use cases. Here are some key differences between the two: JQuery is a JavaScript library that simplifies DOM manipulation and provides utility functions for web development tasks, where as React is a JavaScript library for building interfaces using a component based approach. JQuery is a DOM manipulation library that does not offer built-in state management capabilities. JQuery developers often have to manage state manually or rely on additional libraries. React on the other hand provides a robust state management system allowing developers to manage and update the application state efficiently. In return this makes it to more easily handle complex data flows and maintain consistency. JQuery directly manipulates the DOM which is less efficient for the larger scale applications. React uses a virtual DOM which calculates the most efficient way to update the DOM based on changes made to the virtual DOM. This in turn improves performance by minimizing re-renders.

You would want to use jQuery on a small to medium sized application that require intractability or quick DOM manipulations. This can be seen as adding small animations or interactivity to a static webpage. React is better for larger scale applications with a high degree on interactivity and state management. This can be seen as developing a single page application with multiple interconnected components and flow. The component-based architecture makes React a better choice for this.

References:

Educative. (n.d.). jQuery vs. React. Educative: Interactive Courses for Software Developers. https://www.educative.io/answers/jquery-vs-react

Vats, R. (2022). Jquery vs React: Difference between jQuery and React [2023]. upGrad Blog. https://www.upgrad.com/blog/jquery-vs-react/