1. For each of the following scenarios, write 2 to 3 sentences in a text document (e.g., Word or Pages) about whether a library or framework would be suitable, and why. If you decide that a library or framework would be suitable, evaluate what features would be useful and propose a specific library or framework.

1.1   You've been asked to create a new version of an app used by product administrators to manage settings and display data about user activity and information. The current version was written using jQuery but grew organically, and it's become hard to maintain and add new features to it. It's a medium-sized app, with multiple views displaying a lot of data and forms.

ANSWER: With the understanding that the current version of JQuery and the evolution of the application growing organically, I would use a framework. Even with the problem of adding and maintaining any new features that the company wants to add to this now. React would be the ideal solution here because of the virtual DOM.

1.2   You've been asked to build a new piece of your company's web app. The existing app consists of several sub-apps served independently under different routes by an Express server, which allows for different technologies and frameworks to cohabit. You'll be building what is essentially a huge table that will display hundreds of thousands of data records.

ANSWER: I believe that the best way to approach this is by using Angular. As indicated in our lesson, Angular is a great way to manage the front and back end for web design. Another impressive feature that caught my attention was how fast it can be, even with larger apps. In the long run this would also help keep the application bug free and up to date.

1.3   Your designers have tasked you with creating a prototype for a standalone app to be used internally by your product team. The app will showcase the product team's design system (colors, components, fonts, styling, etc.).

ANSWER: Since this is only going to be used within the company, I would recommend using a library. JQuery would make the build process simple and quick as well.

The advantages of using the React Library:

- React is supported by a wide community of engineers and developers, especially from Facebook
- React ban be used for both web and mobile apps.
- React has its virtual DOM, which ensures faster rendering of views. This makes React appropriate for heavy-loaded and dynamic software solutions