Libraries and Frameworks

1.a. You've been tasked with creating a new version of an application 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 application, with multiple views displaying a lot of data and forms.

Answer : Since it's a mid sized application and is growing, a framework like Angular will help to keep a structure in place to avoid further entropy. Using Typescript will give it a large performance boost. Angular has one of the most detailed documentation. Nested components will help making complex views needed to display user activity and admin information.

1.b. You've been asked to build a new piece of your company's web application. The existing application consists of several sub-applications 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 : React is the best framework for this scenario. It helps keep the code well organised and scalable. It's easy to integrate it with other frameworks for better performance. More the data to be displayed, the more a higher-performance React framework can be leveraged. React's virtual DOM ensures fast rendering of views.

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

Answer : Vue.js is the best choice to create a prototype of a standalone application. It is versatile, a view can be rendered using either HTML templates or JSX rendering. Furthermore, one
can include some native style functionality and has a small footprint (~20KB minified) .

2. Advantages of using REACT to build the myFlix front end:

Answer : React is super popular and well maintained and comes with a starter app which helps jumpstart. Its modular design can help us focus on single tasks to add and manage functionality, Many tools are available and can be downloaded within React easily using NPM.