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# 1. Deciding which JavaScript framework to use

## 1.1 React

**Advantages:**

* Easy to learn for beginners
* Gives the view layer and leaves the freedom of what router and state management system to use
* Efficiently change only the parts of the DOM that need to be changed, instead of updating the whole page
* Has the ability to use stateless components
* Lots of tools and libraries to choose from for all occasions

**Disadvantages:**

* Because of all the libraries that are used in projects, documentation is decentralized
* There is a lot of flexibility which leads to many ways to do the same thing depending on the libraries that are being used

## 1.2 Angular

**Advantages:**

* A lot of functionality is included in the framework, such as dependency injection, routing, forms, and security
* The framework is more opinionated, therefore, development approaches are more consistent
* Uses TypeScript which helps prevent errors in the code and allows for functional programming

**Disadvantages:**

* Steep learning curve. As well as learning TypeScript, you have to learn how to build the applications using the Angular conventions
* Starts to get more difficult to manage the state when the application scales and unintended side effects start piling up
* The file sizes are larger due to all the included components

## 1.2 Decision

React was chosen as the frontend framework, because it is more flexible, due to all the libraries that are available by the open-source community. Furthermore, the choice was supported by the fact that React has a less steep learning curve, which is a big advantage when being a beginner.