Front end framework choice

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Introduction

For this research report I will consider the most 3 popular front end Javascript frameworks: React, Angular and Vue. I will go briefly over the pro's and con's then give my personal opinion. I will consider their ease of use, popularity and flexibility when making my choice.

Methods I used from the DOT Framework are:

Library Method (Ict Research Methods)**:**

- Available product analysis: how much information is available on each framework
- Community Research: how can other's work improve my learning
- Design patterns: what each framework's design principles are

React

React is a framework used by Facebook. It is also much easier to learn than the others because of the simpler syntax. It is considered to be liked by 66.9% of developers that used it (Kumar). Being supported by Facebook, it is currently the most popular and in demand framework (JS_Cheerleader). The documentation is not as extensive but everyone can contribute to React with their own libraries giving it incredible diversity.

Angular

Angular is founded by Google and it ideal for large scale applications that are full of features. It is basec on the structured MVC model and uses TypeScript instead of the usual Javascript. The drawback is that it has a steep learning curve and it is not as beginner friendly as the other discussed frameworks. It's liked rating is lower than of react, sitting at 51.7% (Kumar).

Vue

Vue is a Javascript framework launched in 2013. Although the market share of it is not as big as Angular or React, it is very adaptable so you can switch easily from React or Angular because of their design and architecture (Kuts). It also provides great integration and building single-page applications as well as more difficult web interfaces of apps Vue also provides a mix of HTML and Javascript and is one of the easier frameworks to learn.

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Conclusion

For my individual project I chose React over the other 2 choices on the following criteria's. Firstly there are a lot of learning materials available in many formats which will speed up my learning process. Another incentive for choosing it was the fact that it is currently the most popular choice among the three with very good prospects for the future. Although it may be harder to learn than Vue it is easier than Angular. Lastly my project team will also use React so it is good to stay consistent instead of risking becoming confused

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