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React (Javascript Framework)

*Critique Paper*

React is created by a group of software developer from Facebook. It was loved by many Because of its simplicity, performance, and efficiency. For so many years, it is always the number one choice by developer when building complex user interfaces in web application.

Components based design are the key features of react. virtual DOM and declarative syntax are the reason why React is efficient and maintainable. With react, complex graphical user interfaces can turn into components that are reusable, so developers can create scalable and modular apps. virtual DOM plays a large role in responsiveness and speed of React. In addition, React's declarative approach helps UI development by removing away aspects of low-level DOM manipulation.

With the birth of React, techniques when in comes in building software have changed significantly. Components based structure of React makes code reusable. Developers can quickly make modular user interfaces that can be updated and maintained. React's emphasis on state management and unidirectional data flow also streamlines application logic, resulting in more predictable behavior and simpler debugging. Because React is so popular for developers and is number one choice, it has given birth to many libraries and technologies related to react like Redux a state management and React Router that is used for navigation. with these it makes the development process improved even more.

Because of React's scalability, efficiency, and simplicity, it altered how web applications are developed. With the help of its components-based architecture, makes react reusable, modular, and boost efficiency. React's declarative methodology and easy to understand syntax make development easier and enable developers to build reliable apps faster.