

React is a powerful and widely used JavaScript library developed by Facebook for building modern, dynamic, and scalable user interfaces, especially for single-page applications. It follows a component-based architecture, which means the user interface is broken down into small, reusable, and independent components, making development more organized and maintainable. React uses a virtual DOM to optimize performance by updating only the parts of the web page that actually change, rather than reloading the entire page. It supports unidirectional data flow, which helps in better control and debugging of applications. React can be easily integrated with other libraries, tools, and frameworks, and it works seamlessly with backend technologies. Due to its flexibility, high performance, and strong community support, React is one of the most preferred choices for front-end web development today.