

Question 3: What are the advantages of using React.js in web development?

The advantages of using React.js include:

- **Component-based architecture** for modular, reusable, and maintainable code.
- **Efficient rendering** through the **Virtual DOM** to optimize performance.
- **Declarative syntax** and **one-way data flow** to simplify development.
- **Strong ecosystem, community support**, and easy integration with third-party libraries.
- **SEO benefits** through **server-side rendering**.
- **Faster learning curve** compared to full frameworks like Angular.
- **Cross-platform capabilities** with React Native for mobile development.
- Excellent **developer tools** for testing and debugging.

These advantages make React.js a powerful choice for building fast, scalable, and maintainable web applications.