

Assignment 2

Progressive Web Apps

1. Define the key components of a Bootstrap card and explain their usage with code snippets.
2. Design a Bootstrap form with various input fields and styled buttons. Add basic validation attributes.
3. Integrate Animate.css with Bootstrap elements and explain how animations enhance UI/UX.
4. Describe the Bootstrap grid system. How does it help in creating responsive web designs?
5. Explain the use of the Bootstrap framework in front-end development. Highlight its key benefits.
6. Explain any five features of ReactJS.
7. What is meant by JSX. explain its features?
8. Define Routing. Write a short note on React Router.
9. Explain the concept of Virtual DOM in React. How does it improve performance?
10. Explain in detail the state management strategies in React (Redux, Context API).
11. How the Virtual DOM Works in React? Explain the steps.
12. Explain the concept of Virtual DOM and JSX in React.