Mock interview-1

1. What is the full form of HTML?
2. Why is semantic HTML preferred over regular <div> elements?
3. Explain the differences between the <div> and <span> tags in HTML.
4. Distinguish between inline and block-level elements in HTML.
5. Can you describe the box model in CSS and its components?
6. What is CSS specificity, and how does it impact style precedence in web development?(number)
7. Datatypes in js- [typeof(array)]
8. Let ,var,const

Var=>global

Let and const => block scope(if,else)

1.pseducode

Var x=10

Function foo(){

Console.log(x)

Var x=10;

}

Foo();

1. Pseudocode

console.log("start")

setTimeout(()=>{

console.log("time")

},0)

console.log("end")

1. Pseudocode

for (var i = 1; i <= 3; i++) {

setTimeout(() => {

console.log(i);

}, 1000);

}

Use let

**React.js Interview Prep Plan for Today (with Questions)**

Morning (2 hours):

Fundamentals Review (1 hour):

1. What is JSX and how does it differ from regular HTML?
2. Explain the difference between functional and class-based components in React.
3. Describe the purpose of props and state in React and how they differ.
4. Explain the concept of the Virtual DOM and its benefits.
5. What is React js
6. What is difference between virtual dom and shallow dom, dom in React js
7. \What is controlled and uncontrolled component in React js
8. What is hooks in React js
9. What is jsx, babel, webpack
10. What is Redux
11. What is reducer, action, store in Redux ●What is middleware in Redux ● Explain data flow in Redux ●What is Redux-Thunk ●What is Redux-Saga, Difference between Redux-thunk and Redux-saga ●Difference between class component and function component ●How can we implement componentWillUnmount in function component ●useEffect,UseState, useMemo.useCallback hooks in Details ●Explain lifecycle method in React js ●What is difference between export default and export in React js ●What is portal in React js●What is reconciliation in React js ●What is useRef in React js ●What is server side render in React js ●What is useStrict in React js ●What is fragment in React js ●What is react router in React js ●What is node module in React js ●What is the default localhost server port in react js. how can we change the local server port ●What is high order component in React js ●What is pure component in React js ●What is difference state and props in React js ●How to optimize React js app ●What is difference between React js and Angular js ●What is prop drilling in React js how to overcome it ●What is context api in React js ●What is super, constructor, render function in React jsPractice Coding Challenges (1 hour):
12. Given a list of products, create a React component that displays each product with its name and price. (Easy)
13. Develop a React component that allows users to toggle a light switch on and off, updating the UI accordingly. (Medium)
14. Implement a search bar component that filters a list of items based on user input. (Hard)

Afternoon (2 hours):

Mock Interview (1 hour):

1. How would you handle prop drilling in a large React application?
2. Explain the concept of lifting state up in React and give an example.
3. What are some strategies for optimizing the performance of React applications?
4. Describe how you would implement routing in a React application.
5. Explain the benefits of using a state management library like Redux in complex React projects. (Bonus: Have a basic understanding of how Redux works)

Advanced Topics Exploration (1 hour):

1. What are the key features of React Router and how would you use it in a project?
2. Briefly explain the concept of Hooks in React and give an example of their use. (Focus on core hooks like useState and useEffect)
3. Describe how you would test a React component. (Basic understanding of testing frameworks like Jest)

Bonus:

* Reflect on your past React projects and prepare to discuss a specific challenge you faced and your solution.
* Review common React interview questions from online resources to stay updated on current trends.

Additional Tips:

* Practice writing pseudocode or explaining your thought process on a whiteboard.
* Be prepared to ask questions about the project, team, and company culture during the interview.
* Maintain a positive attitude and demonstrate your enthusiasm for learning and problem-solving.

Remember, this is just a sample plan, and you can adjust it based on your experience and the specific interview you're preparing for. Good luck!