

# Interview Environment Setup Instructions

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## Interview Process

1. The interviewer will provide you with a link to join the Live Share session in Visual Studio Code.
2. Make sure you have Visual Studio Code installed on your computer. If not, download and install it from the official website: <https://code.visualstudio.com/>
3. Click on the provided link to join the Live Share session.
4. If prompted, sign in with your Microsoft or GitHub account to authenticate.
5. Once you have joined the session, the interviewer will provide you with further instructions.

## Environment Requirements

1. Make sure you have a stable internet connection and a functioning webcam.
2. Close all unnecessary applications and browser tabs to avoid distractions and ensure optimal performance.
3. Ensure you have the following installed:
  - Node.js (v14 or higher)
  - npm (v6 or higher)
  - git

## Study Questions

These questions are meant to give you an idea of the topics that may be covered during the interview. The actual questions may vary.

1. Explain the difference between `useState` and `useEffect` hooks in React.
2. How would you optimize the performance of a React application?
3. Describe the process of creating a RESTful API endpoint in Node.js.
4. What is the purpose of a smart contract in blockchain technology?
5. How would you ensure the security of sensitive data in a web application?
6. Explain the concept of responsive design and how you would implement it using CSS.
7. What is the difference between `localStorage` and `sessionStorage` in web browsers?
8. How would you handle asynchronous operations in JavaScript?
9. Describe your experience with version control systems like Git.
10. What are some best practices for writing clean and maintainable code?

Please be prepared to join the Live Share session at the scheduled interview time and have your environment set up accordingly. Good luck!