

61 Web Developer interview questions to ask candidates (with answers)

Questions

1. Can you explain the difference between HTML, CSS, and JavaScript?
2. What are semantic HTML elements, and why are they important?
3. How do you ensure that your web applications are accessible to users with disabilities?
4. What is the purpose of using a CSS preprocessor like SASS or LESS?
5. Can you describe the box model in CSS and its components?
6. What are the advantages of using responsive design?
7. How would you optimize a website's performance for faster load times?
8. What is the difference between client-side and server-side scripting?
9. Can you explain how AJAX works and where you might use it?
10. What are some common security concerns in web development, and how would you address them?
11. How do you manage version control in your projects?
12. What is the purpose of a content delivery network (CDN)?
13. Can you explain the concept of RESTful APIs?
14. What tools or methods do you use for debugging web applications?
15. How do you test your web applications across different browsers and devices?
16. How would you explain the concept of responsive design to a non-technical client?
17. What strategies do you use to optimize website loading speed?
18. How do you ensure cross-browser compatibility in your web development projects?
19. Can you explain the difference between 'px', 'em', and 'rem' units in CSS?
20. How would you handle a situation where a client insists on a design change that you believe will negatively impact user experience?
21. What's your approach to writing maintainable and scalable CSS?
22. How do you stay updated with the latest web development trends and technologies?
23. Can you explain the concept of Progressive Enhancement and how you might implement it in a project?
24. How would you implement a custom event system in JavaScript?
25. Can you explain the concept of closures in JavaScript and provide a practical example?
26. What are Web Workers, and in what scenarios would you use them?
27. How does the 'this' keyword work in JavaScript, and how does it differ in arrow functions?
28. Can you describe the differences between localStorage, sessionStorage, and cookies?
29. What is the Virtual DOM in React, and how does it improve performance?
30. How would you handle state management in a large-scale React application?
31. Can you explain the concept of CSS Grid and how it differs from Flexbox?
32. What are Service Workers, and how can they be used to create offline-capable web applications?
33. How would you implement lazy loading for images in a web application?
34. Can you describe the purpose and implementation of WebSockets?
35. What are the key considerations when designing a RESTful API?
36. How would you approach debugging a web application that has a layout issue?
37. What strategies do you use to ensure your web applications are mobile-friendly?
38. Can you explain how you stay organized while working with large stylesheets?
39. How do you prioritize features during a web development project?
40. What role does SEO play in front-end development, and how do you address it?
41. How do you manage dependencies in your front-end projects?
42. Can you explain the concept of middleware in web development and provide an example of how it's used?
43. Describe how you would handle database migrations in a production environment.
44. What is the role of an ORM (Object-Relational Mapping) in back-end development, and what are some popular ORM tools you have used?
45. How would you implement authentication and authorization in a web application?
46. What strategies do you use for ensuring the scalability of a web application?
47. Can you explain the difference between SQL and NoSQL databases, and in what scenarios you would use each?
48. Describe how you would approach optimizing database queries for performance.
49. What are microservices, and what are the advantages and challenges of using them?
50. How do you handle error logging and monitoring in your applications?
51. What is caching, and how would you implement it to improve the speed of a web application?
52. Describe a situation where you had to implement a feature without clear requirements. How did you approach the task?
53. Can you give an example of a project where you had to work with a legacy codebase? What challenges did you face and how did you overcome them?
54. How would you handle a situation where your project deadline is tight, but a critical component isn't working as expected?
55. Tell me about a time when you had to collaborate with other developers on a large-scale project. What tools or methods did you use to ensure effective communication?
56. How have you handled a situation where you discovered a major bug at a late stage in the development process?
57. Describe a time when you had to learn a new technology or framework on-the-fly to complete a project. How did you manage it?
58. Can you share an experience where you had to prioritize different tasks under pressure? How did you decide what was most important?
59. Explain how you would manage a project's scope if a client requests additional features midway through development.
60. What steps would you take if you encountered a security vulnerability in a live application?
61. How do you handle feedback or criticism about your code from peers or supervisors?