

MERN Stack Viva Questions (100 Questions)

50 Frontend Questions

1. What is the difference between block-level and inline elements?
2. Explain the CSS Box Model.
3. What are semantic HTML tags? Why are they important?
4. How do you center a div vertically and horizontally using CSS?
5. What is Flexbox? Name some commonly used flex properties.
6. What is CSS Grid, and how is it different from Flexbox?
7. What is the difference between `display:none` and `visibility:hidden`?
8. What are media queries? How do you use them?
9. What is specificity in CSS?
10. Difference between class selector and id selector.
11. What is hoisting in JavaScript?
12. Difference between `var`, `let`, and `const`.
13. What are arrow functions?
14. What is a callback function?
15. What is the event loop?
16. Difference between synchronous and asynchronous JS.
17. What is a Promise?
18. Explain `async/await`.
19. What is debouncing?
20. What is throttling?
21. What is the DOM?
22. Difference between `==` and `===`.
23. What is JSON?
24. Explain closures.
25. What is `localStorage` vs `sessionStorage`?
26. What is event delegation?
27. Explain prototypal inheritance.
28. What are components in React?
29. Difference between functional and class components.
30. What are React Hooks?

31. What is useState?
32. What is useEffect?
33. What is prop drilling?
34. What is Context API?
35. What is Virtual DOM?
36. Controlled vs uncontrolled components.
37. How to handle forms in React?
38. What are fragments?
39. What is React Router?
40. What is lazy loading?
41. What is memoization?
42. Difference between useMemo and useCallback.
43. What is Redux?
44. What are actions, reducers, store?
45. Explain Redux Toolkit.
46. What is JSX?
47. What is reconciliation?
48. Purpose of keys in React?
49. How to handle API calls in React?
50. What are error boundaries?

50 Backend Questions

1. What is Node.js?
2. What is event-driven architecture?
3. What are streams in Node?
4. Difference between CommonJS and ES Modules.
5. What is middleware?
6. Purpose of package.json?
7. What is nodemon?
8. How event loop works?
9. What is cluster module?
10. What are environment variables?
11. What is Express.js?
12. How to create Express server?
13. What are routes?

14. What is Express middleware?
15. Difference between req.body, req.params, req.query.
16. Error handling in Express?
17. What is Express Router?
18. What is CORS?
19. File upload in Express?
20. What is rate limiting?
21. What is MongoDB?
22. SQL vs NoSQL?
23. What is document & collection?
24. What is ObjectId?
25. What are indexes?
26. What is aggregation?
27. Explain \$lookup.
28. Schema validation?
29. What is Mongoose?
30. findOne vs findById.
31. What is JWT?
32. Structure of JWT?
33. How JWT authentication works?
34. Auth vs Authorization.
35. How to secure passwords?
36. Why bcrypt?
37. What is refresh token?
38. What is CSRF?
39. What is XSS?
40. What is Helmet?
41. What is REST API?
42. What are CRUD operations?
43. HTTP methods?
44. HTTP status codes?
45. What is Postman?
46. What is API versioning?
47. How to deploy MERN app?
48. What is reverse proxy?

49. Monolithic vs microservices?

50. How pagination works?