Interview questions

Angular
1. How to prevent unauthorized access in Angular.
2. Angular 10 features.
3. Create a form component to create multiple users and send the array of users to the backend.
4. Differences between Subject and BehaviorSubject.
5. What is NgRx and why use it.
6. Create custom directive.
7. Advantages of Reactive Forms.
8. Component relationships (parent-child).
9. Angular routing.
10. Angular Ivy compiler and its changes.
11. Communicating between independent components.
12. Angular Change Detection.
13. ViewChild usage.
14. Angular Directives.
15. Data Binding.
16. Pipes in Angular.
17. Dependency Injection (DI).
18. Angular Decorators.
19. State management with NgRx.
20. Implementing CSS in Angular.
21. NgFor and NgIf usage.
22. NgTemplate and NgContainer differences.
23. Unsubscribe issue in Angular.
24. Route Guards (AuthGuard, CanDeactivate).
25. Interceptors in Angular.
26. Angular Ivy Compiler.
27. Angular Change Detection.
28. Optimize Angular.
29. Lazy loading in Angular.
30. Difference between NgClass and class attribute.
31. Styling button with TypeScript instead of HTML.

Node.js and Express.js
1. POST route to create users, encrypt passwords for admin users, and handle non-blocking DB calls.
2. GET route to fetch users, with authorization check.
3. JWT token security.
4. Middleware to catch all errors.
5. Nested child in Mongoose.
6. Using salt to hash passwords.

7. Indexing in MongoDB.
8. Unit testing with Mocha and Chai.
9. Creating and using Express middleware.
10. Asynchronous operations and error handling.
11. Connection pool management.
12. Deployment with PM2.
13. Performance optimization and caching.
14. Using Winston for logging.
15. WebSockets using ws.
16. Single Sign-On (SSO) API.
17. Strict mode in JavaScript.
18. NextTick and process.next().

JavaScript (JS)
1. Arrow function and normal function.
2. JavaScript variable declarations: var, let, const.
3. == vs ===.
4. Promises.
5. Async/Await.
6. Fetch unique values from MongoDB.
7. Event Loop: setImmediate vs process.nextTick.
8. Data manipulation with map, filter, reduce.
9. Sorting an array of objects by salary.
10. Removing duplicates from an array.
11. Closures in JavaScript.
12. Global variables in JavaScript.
13. Hoisting in JavaScript.
14. TypeScript vs JavaScript.
15. Interface and type in TypeScript.
16. Generics in TypeScript.
17. TypeScript declaration for number or string.
18. Difference between normal function and arrow function.
19. Bubble sort algorithm.
20. Splitting an array with specific conditions.
21. Handling errors in REST APIs.
22. Caching and rate limiting in APIs.
23. API documentation for Node.js.
24. Error handling in asynchronous code.
25. Redis cache.
26. API throttling.
27. MongoDB shell operations.
28. Using environment variables for sensitive data.

MongoDB

1. Indexing in MongoDB.
2. Get operation in MongoDB.
3. ORMs for MongoDB.
4. Aggregation in MongoDB.
5. MongoDB Shell.
6. Use of environment variables for sensitive data.

SQL
1. Joins (inner join, left join, right join, full outer join).
2. Foreign key usage.
3. Query to find the second highest salary.
4. Left join and right join differences.
5. Stored procedures.

HTML
1. HTML layout with script.
2. Semantic tags in HTML.
3. Inline and block elements.
4. Selecting first child with CSS.
5. Creating a sticky header.
6. Using Bootstrap classes in Angular.
7. Flexbox properties.
8. Responsive design with CSS.
9. Using max-width and min-width.
10. Difference between em and rem units.
11. CSS box model.
12. Difference between class and id.
13. Priority in CSS.
14. Display and position properties.
15. Centering a child div within a parent div.
16. Z-index property in CSS.
17. Opening links in a new tab.
18. Usage of iframe.
19. UI/UX strategy.
20. Adding background colors based on max-width and min-width.

1. Agile methodology.
2. Waterfall methodology.
3. EC2 and S3 in AWS.
4. UI/UX strategy.
5. Firebase vs MongoDB.
6. NoSQL databases.
7. When to use NoSQL vs SQL.