

HTML

1. Explain the difference between block elements and inline elements?
2. What is local storage in html5?
3. What is session storage in html5?
4. What is cookies in html5?
5. Describe the difference between a cookie, sessionStorage and localStorage?
6. What does CORS stand for and what issue does it address?
7. What is the DOM? How does the DOM work?
8. How does the browser rendering engine work?
9. What are the Benefits of Server Side Rendering (SSR) Over Client Side Rendering (CSR)
10. Name 3 ways to decrease page load?
11. Ways to improve website performance
12. How to make page responsive?
13. How geolocation api works in html5?
14. What is difference between SVG and Canvas?
15. Explain Drag and Drop in HTML5?
16. What is progressive rendering?
17. What is an iframe and how it works?
18. What is an HTML preprocessor? Have you used different HTML templating languages before?

CSS

19. What is the use of css ruleset?
20. Explain new features in CSS3?
21. What are the css selectors?
22. What is the difference between Pseudo-classes and pseudo-elements?
23. Explain CSS grid layout with example?
24. What is CSS flexbox?
25. When to use css grid and flexbox?
26. Explain the difference between `visibility: hidden;` and `display: none;`?
What are the pros and cons of using `display:none`?
27. What is the purpose of the `z-index` and how a stacking context is formed?
28. Explain CSS position Property?

29. What are the differences between relative and absolute in CSS?
30. The difference between block, inline and inline-block element?
31. How do you specify units in the CSS? What are the different ways to do it?
32. Which one would you prefer among px, em % or pt and why?
33. What is pseudo element? What is pseudo class?
34. Explain the CSS “box model” and the layout components that it consists of?
35. Explain the meaning of each of these CSS units for expressing length?
36. What is the purpose of the box-sizing property?
37. What is CSS preprocessor?
38. What is the float property and what float do?
39. What is a clearfix in CSS?
40. How would you approach fixing browser-specific styling issues?
41. What are media queries? How could you apply css rules specific to a media?
42. How is responsive design different from adaptive design?
43. What is progressive rendering?
44. What is mobile-first? Can you explain the difference between coding a website to be responsive versus using a mobile-first strategy?
45. What is the difference between padding and margin?
46. What is the difference between CSS variables and preprocessor(SASS, LESS, Stylus) variables?
47. What is Accessibility (a11y) in a web application?
48. What is file splitting? When is it used?
49. How does CSS work under the hood?

Javascript

50. List out important features of JavaScript ES6?
51. What are global variables?
52. What are template literals in es6?
53. What are the differences between variables created using `let`, `var` or `const`?
54. What is Hoisting in JavaScript?
55. In which case the function definition is not hoisted in JavaScript?
56. How do you swap variables using Destructuring Assignment?
57. What are data types in javascript?
58. What is difference between `null` vs `undefined`?
59. What is the difference between `==` and `===` operators?
60. What is typeof operator?

61. What is the difference between `typeof` and `instanceof` operator?
62. Explain array methods [`join()`, `pop()`, `push()`, `shift()`, `unshift()`, `concat()`, `map()`, `filter()`, `reduce()`, `reduceRight()`, `every()`, `some()`, `indexOf()`, `lastIndexOf()`, `find()`, `findIndex()`, `includes()`]
63. When to use `reduce()`, `map()`, `foreach()` and `filter()` in JavaScript?
64. Can you describe the main difference between a `.forEach` loop and a `.map()` loop and why you would pick one versus the other?
65. What are regular expression patterns?
66. What are the benefits of using arrow function over es5 function?
67. When you should not use arrow functions in ES6?
68. What is a first class function?
69. What is a higher order function?
70. What is a pure function?
71. What is memoization in JavaScript?
72. What is generator in JS?
73. Compare Async-Await and Generators usage
74. What is an event delegation?
75. How to check if an object is an array or not?
76. Can you give an example for destructuring an object?
77. Explain the difference between mutable and immutable objects
78. How to create immutable object in javascript
79. How can you achieve immutability in your own code?
80. What is shallow copy and deep copy in javascript?
81. What are the properties used to get size of window?
82. What is a promise?
83. What is `promise.all()`?
84. What are the pros and cons of promises over callbacks?
85. How does `await` and `async` works in es6?
86. What is strict mode?

React

87. Use Context to Pass Data
88. Call child method from parent in React
89. How can I update the parent state in React?
90. How to access a child state in React?
91. React prop validation for date objects

92. Updating state on props change in React
93. Sending the bearer token with axios
94. Pass props in Link react-router
95. Update style of a component onScroll in React.js
96. Dynamically add child components in React
97. How to restrict access to routes in react-router?
98. How to start search only when user stops typing?
99. How to implement default or NotFound page?
100. Creating a store
101. Using a store
102. Mapping state
103. Combining reducers
104. Applying middleware
105. What are fragments?
106. How to put React in production mode?
107. What are the popular React-specific linter?
108. Explain the use of Webpack and Babel in React?
109. How to loop inside JSX?
110. How to conditionally render components in react?
111. How to conditionally add attributes to React components?
112. What is Lifting State Up in ReactJS?
113. Differentiate between stateful and stateless components?
114. What is difference between useEffect() vs componentDidMount()?
115. What are Pure Components in React?
116. What is Higher Order Components in React.js?
117. What are the benefits of using HOC?
118. How to set up lazy loading components in React?
119. How to apply validation on Props in React?
120. Why is setState() in React async instead of sync?
121. What is meant by event handling in React?
122. How to pass a parameter to event handlers in React?
123. How do you pass an event handler to a component?
124. What are the benefits of using Axios() over Fetch() for making http requests?
125. How to do caching in React?
126. How RxJS is used in React for state management?
127. How to Memoize Components in React?
128. What are the components of react router?

129. What is route based code splitting?
130. What is lazy function in React?
131. What is the difference between try catch block and error boundaries?
132. What do you understand by refs in React?
133. How would you create a form in React?
134. What are React Hooks?
135. What are advantages of using React Hooks?
136. How to fetch data with React Hooks?
137. How to re-render the view when the browser is resized?
138. Why do we use array destructuring in useState?
139. What is a Webhook in React?
140. What is the difference between NavLink and Link?
141. What are the methods invoked during error handling?
142. How to use styles in React.js?
143. How many ways can we style the React Component?
144. How to display style based on props value?
145. Why should we use Test-Driven Development (TDD) for ReactJS?
146. Explain unit test structure in React?
147. How to optimize React Performance?
148. What do you understand with the term polling in React?
149. What are portals in React?
150. What is the best way to access redux store outside a react component?
151. Should all component states be kept in Redux Store
152. How to dispatch an action on load?
153. Explain the role of Reducer?
154. What is Redux Thunk used for?
155. What are typical middleware choices for handling asynchronous calls in Redux?
156. How can I represent "side effects" such as AJAX calls? Why do we need things like "action creators", "thunks", and "middleware" to do async behavior?
157. Are there any similarities between Redux and RxJS?
158. What are the differences between redux-saga and redux-thunk?
159. How to make Ajax request in Redux?
160. What is the difference between React State vs Redux State?
161. What is Flux?
162. What are the drawbacks of Redux contrasted with Flux?
163. How to add multiple middleware to redux?
164. What is the difference between React context and React Redux?