Interview Questions on React.js and Javascript

**Interview 1:**

1. Explain about your current project in detail?

I have been in the industry for more than 4 years, and not only constraining myself to front end development, I have also had concise experience with backend development as well. So, I have experience on static web technologies like HTML5, CSS3, Some css frameworks like bootstrap, skeleton and some single page application frameworks like AngularJS, ReactJS and there is a new framework coming up in the market named Vue.js. Also I have experience on API building with Node.JS and Database manipulations with MongoDB, MySQL, SQL Server, Java.

1. "Function.prototype.call()" & "Function.prototype.apply()" difference in what scenario?

The call() method calls a function with a given “this” value and “arguments” provided individually.

The apply() method calls a function with a given “this” value, and arguments provided as an array (or an array-like object).

1. What is diff between function & Arrow function?

Unlike regular functions, arrow functions do not have their own this . The value of this inside an arrow function remains the same throughout the lifecycle of the function and is always bound to the value of this in the closest non-arrow parent function.

1. What is closure?

if any inner function holding the outer function data, then such scenario called as closure.

1. What is currying function?

A curried function is a function that takes multiple arguments one at a time.

Why it’s useful ?

Currying helps you to avoid passing the same variable again and again.

1. Hoisting?

Hoisting is JavaScript's default behavior of moving declarations to the top.

1. Difference between state and props in React?

In a React component, props are variables passed to it by its parent component. State on the other hand is still variables, but directly initialized and managed by the component. The state can be initialized by props.

1. Can a callback function pass as prop?
2. how to update state value?
3. is "setState" async method?
4. Difference between var and let keyword? Syntax?
5. Explain the application architecture? Redux architecture?
6. What is "this" keyword? Why is "this" keyword a current class member or current obj?
7. What is the difference between the callback and arrow function?
8. What is the difference between Server-Side rendering and Client-side rendering? Did you work on server-side rendering?

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Interview 2:

1. Tell me about your project you are working on?
2. Explain Project lifecycle? Is it Agile methodology? How tickets are assigned? What is PR?
3. Did you deploy the project in Dev, QA, Production? Explain how each step works?
4. What do you like about the UI development? Why did you take UI Development?
5. When designing web page for user? How do you understand the requirement? How do you challenge the requirement?
6. How do you interact with webservices? What is benefit of having web services?
7. Tell me the last problem statement you solved? Problem that took 2-3 days how to approach problem and solve it?
8. If boss come and say make change, the requirement will slow down the application? How will you handle the situation?
9. What part of website need to be built in react or angular or JQUERY? DOM Manipulation?
10. AEM 6.5 how do you interact with React Application? What technology stack did you work? JQUERY? AJAX?

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Interview 3:

1. How do specify a class by using JavaScript?
2. In CSS, what is "box-model"?? please explain?
3. What is "this" keyword?. Why will we will be using keyword? Please explain?
4. What is Thunk and Redux library. why will be using this library in real-time environment please explain?
5. Please explain about .map() in JS? And in .subscribe() in Angular?
6. How to specify an object using array?

var tmp = {[A:"apple",B:"Bat",C:"Cat"]}; // I want only keys dont want the values How??

1. What is the difference between array and object in JS?
2. Explain me about JS ES6 features what you have been used in real-time projects? Briefly?
3. Why will be using “export” in component and why “default” & what is “default keyword”. Please explain me briefly?

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Interview 4:

1. Describe – Work done related to React Features

(Virtual DOM,

JSX,

Components,

conditional statements and

lifecycle methods)

1. Props Usage?
2. Container Pattern
3. DRY principles
4. HOC Pattern
5. Describe JEST

Interview 5:

1. How do you pass from Child to Parent? Parent to Child ?

2. Why is super keyword used?

3. Why can't we use setstate directly?

4. What is use of provider?

5. can we have more than 1 store?

6. What are generator functions? why? What is yield?

7. What is rest operator and spread operator?

8. how can you make the copy for the object?

9. difference let and var?

10. what is function prototyping?

11. what is closure? Example?

12. how can you remove the duplicate elements from array?

13. what are the side effects of saga middleware?

14. what are higher order components?

15. git merge and rebase?

16. Why Saga?

17.What is class level component and functional level component? differences?

18. What are lifecycle methods in react?

19. what is React-redux? Why?

20. What is Hoisting in JS?

21. What is event bubbling and event capturing?

22. event delegation

23. Tell me about yourself and project?

24.Where code hosted? Bitbucket

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Interview 6:

1. Explain about the current project?
2. Explain redux react ?
3. restful explain?
4. promises?
5. dependency injection?
6. angular and react differences ?WHY?

Interview 7:

1. tell me about current project?
2. Difference b/w angular vs react
3. what is 2-way binding in angular or react?
4. what is JSX & how browser read JSX??
5. What is purpose of render()?
6. Component? How to ambend(mix) 2 or more components? How? Yes create 2 components and merge using another component.
7. difference b/w state and props?
8. what is arrow function in react?
9. In component stateful Vs stateless component(easy to test, what comes in)?
10. What is Refs in react?
11. What is Synthetic event?
12. difference between flux and redux?
13. components of redux? action, reducer, container, component
14. how you are calling the backend? Async await and fetch
15. did you build application from scratch?
16. how you are writing the test cases in react?
17. how do you deploy the applications in QA?
18. Where do you apply deployment.
19. do u use node.js?
20. Javascript?
21. Java backend did you work? CI/CD pipeline ? NodeJS? Jquery?
22. What is React-redux?

Interview 8:

1. Virtual DOM
2. How does Redux works
3. Lifecycle of React
4. What is connect HOC?
5. Stateful components and Stateless Components? Difference? What is Component?
6. Pure components
7. What is Saga, Thunk middleware
8. How do you dispatch actions?
9. What is react hooks ?
10. Context Api

Interview 9:

1. Tell me about your current project? What tools are you using?
2. Which technology are you comfortable with Angular or React?
3. What is difference between object.freeze and Const?
4. What is Callback?
5. What is Prototype Chaining?
6. What css styling tool did you use?
7. Can you built a react app and execute the hello world inside it
8. Can you write code to build a form that takes input and display message on click of submit button?
9. Can you write code to create separate component for input field?
10. Can you write code to create Form component separately and display the output?
11. Can you write code to show the Message in separate file?
12. Can you explain me the folder structure for the create-react-app
13. Can you display the message starting with "abc" and don't display if we pass any other text(like aqqqcc don’t show)?
14. Why Observable?
15. Why redux?
16. Can you explain the redux architecture?
17. Can you create a react app without redux?
18. What is context api?
19. What is Closure? Why we need closure?
20. Why we need arrow functions?
21. What is callback?
22. Can you implement the material ui design elements for the input field and button
23. Can you show the message output using the redux?
24. Can you write context api code to implement the input field and message?
25. What is the purpose of State?
26. What are the best practices followed in the company?
27. What is pagination? Why we need to go for it?
28. If we build a search engine using react can you explain how the search works?
29. How do you add the filtering in Search?
30. What API are need to show the Search results?
31. Can we implement the redux without state or reducer?
32. Which IDE did you use? Can you install and run sample code?
33. Can you open the documentation for the react-context app and explain the flow?
34. Can you open material-ui documentation and tell me which elements you have worked on?
35. What is IntelliJ? Why we need it?

Interview 10:

1. Is state management is possible without redux.
2. How we can send data from 1000 component and register them.
3. Agile Methodologies in brief.
4. project structure and flow?
5. React life cycle/hooks.
6. why need to use redux? State management
7. props and it uses
8. data structure scenario based questions.
9. fetch API
10. unit testing, how to mock the data.
11. React HOC and Store management.
12. grunt gulp
13. JavaScript oops concept.
14. how to maintain redux architecture?

Interview 11:

1. what is react ?
2. why react famous ?
3. functional level & class level component in reactjs ?
4. explain render() ?
5. life cycle hooks ?
6. state & props ?
7. sql & nosql databases ?? when to use sql & nosql ?
8. rest api calls in reactjs ?
9. oops in JavaScript ?
10. var & let differences ?
11. what is promise ?

Interview 12:

1. What is element position Static, relative, fixed, absolute?

2. What is border and margin?

3. Did you work on Angular/Cli?

4. Difference b/w angular and react?

5. Angular Lifecycle Hooks?

6. HTML5 API

7. Latest tags in HTML5

8. Application cache?

9. How Angular Cli work?

10. Why Typescript?

11. Local Storage and Session Storage? Why?

12. HTML5 New element?

13. Dynamic type Vs static type

14. What is web worker?

15. Angular http requests get post

16. Why Angular 1 shifted 2 why we updated versions.

17. How to ajax call

18. Angular ajax call?

19. Box Model?

20 Ajax get request?

21.Ajax post request with body

22.Angular http requests get post

23. Dynamic typing and static typing?

24. why arrow functions?

25. why JavaScript don't need int and char?

Interview 13:

1. Explain about your current project?
2. What is service flux?
3. How to create Components in Angular?
4. What is advantage of switching from Angular to react?
5. Why Services?
6. What is Angular routing? how to validate the link?
7. What is debouncing?
8. What is HOC?
9. What is state management in react application?
10. Redux?
11. What is redux thunx, redux saga? Why Saga?
12. What is store? What is reducer? Dispatch? Subscribe? Actions?
13. What is Application Architecture you are currently working on?
14. What is addEventListerner?
15. HTML5 tags
16. What is document.write()?
17. How to convert Object to string?
18. What is mandatory lifecycle in React?
19. How to take state in react?
20. How to solve error?
21. What is axios module?
22. How to create REST API?
23. Why Callbacks?
24. 2- way Data binding

Interview 14:

1. What is get(), fetch() what is axios(), what is difference between get and fetch()
2. What is componentDidMount() ?
3. Can you write the HTML, CSS and JS to make an image slideshow that auto slides the image one after every one second such that one image is shown at a time.
4. What are the different challenges you faced while development? How did you solve?
5. How does the requirement come?
6. Explain tool?

Interview 15:

1. ReactJS

2. Framework Vs Library

3. Event bubbling and Event Capturing

4. Stop propagation and Stop Immediate Propagation

5. Prevent Defaults

6. Type of null, object, array

7. How to check the API response is array or object?

8. Modules in react

9. Have you published any packages?

10. let and const

11. NPM packages

12. Unit Testing

Interview 16:

1.Angular service

2. Difference between angular and react

3.Project discussion

4. Why is Node.js single threaded

5. Advantages of React JS over Angular application?

6. What are different kinds of bindings in angular?

7. What is the promise and observable?

8. What is | ?

9. What is arrow function ?

Interview 17:

1. 1.Given the following three ways to use external code in your JavaScript file, which do you prefer and why?

const tests = require(./tests.js)

import \* as tests from ./tests

import { test1, test2 } from ./tests

1. In your own words, describe how promises work. How is async/await related to promises?
2. If you are writing some code and have the choice between making it more performant but less readable, or less performant but more readable, which do you prefer and why?
3. What are some new or upcoming features in the JavaScript/React ecosystem you are excited about and why?

Interview 18:

1. What is CSS Float Property?

2. What is CSS Position?

3. HTML5 Semantic Web?

4. Difference b/w local storage and session storage

5.What is Javascript function?

6.What is the scope of the variable?

7. What is Callback, closure?

8.explain crud operations in angular?

9.why we use bootstrap? explain some bootstrap class?

10.explain directives

11.explain routing?

12.Events in HTML?

13.differnce between display:block and visibility hidden?

14.difference between var, let, const keyword?

15.types of Binding in angular?

16.Lifecycle hooks in Angular?

17.differnce between promise and observable?

Interview 19:

1. What is difference between class and Functional Component?

2. Explain Redux Flow?

3. Have you worked on React Hooks?

4. Have you worked with Promise &Async, Await()?

5. How to perform async operations using redux?

6. How did you test your application?

7. Which testing framework you have used and how code coverage % you were maintaining?

8. What challenges you faced during development?

9. Explain about your last project?

10. What is debouncing?

11. Have you used redux-thunx?

12. Have you used redux-saga?

Interview 20:

1.How react work ? What exactly is VIRTUAL DOM?

2.All the life cycle methods or hooks of REACT

3.what will happen if I will write setState inside componentwillmount?

4.what exactly shouldComponentUpdate return and how it works

5.exactly when componentUnmount is Called?

6.what is key ? Did you see if we don’t use key what will happen?

7.what this.state.bind(this) exactly do?

8.what will happen if we call setState inside render() ?

9.what ref is used for?

10.difference of normal function and arrow function (this is from JavaScript)

11.how we can add class in jquery?

12.what is call back function (JavaScript)

13. what is ajax and how it called (JavaScript)

14.what exactly promise return ?(JavaScript)

15.if promise return failure then how you will catch the error?(JavaScript)

16.Difference between angular and react?

17. What is the need for redux?

18.How to manage state in redux?

19.Difference between state and props?

20.why we use arrow functions?

21.Tell me about reduce function?

22.Difference between pure and impure components?

23.What is stateless component in react?

24.What is JSX in react?

25.Explain the purpose of render() in React.

26.Why we use routing?

27.How would you create Higher Order Components (HOCs) in React?

28.What is the significance of keys in React?

29.What is the significance of refs in React?

30.What are the differences between a class component and functional component?

31.What is a higher order component?

32.How Virtual-DOM is more efficient than Dirty checking?

33.What is render() in React? And explain its purpose?

34.What are controlled and uncontrolled components in React?

35.What are the life Cycle of ReactJS?

36.What are the Advantages of ReactJS?

37.What do you know about synthetic events?

Interview 21:

1. what is html?

2. what is CSS??

3. In how many ways we can write CSS?

4. Difference between Virtual DOM and DOM ?

5. create a function and execute it in the browser.

6. create login page with two field , one for email id and second one is password field , one button and show the data in the console.

7. tell me different tags in HTML.

8. create two button in react js , one for increment and another for decrement , show the data in the browser.

9. how to create project in react js ?

10. Difference between react js and react native.

11. which is higher order component?

12. what is redux?

13. what is box model in CSS?

14. Different types of component in react js ?

15. Difference between class level component and functional component?