**Interview 1**

1. Roles and Responsibilities in my project.
2. Explain about Redux Design pattern.
3. Explain about Hooks in ReactJS.
4. Explain about Higher Order Components.
5. Challenges faced in my project.

**Interview 2:**

* 1. what is React and its features?
  2. what is Virtual-DOM and how it works in React?
  3. React Lifecycles
  4. Differences between a class component and functional component
  5. What is Redux and why do we need it and its workflow.
  6. How to connect mogodb in nodejs
  7. how to fetch data in react from backend that is connected to mongodb/other database
  8. how to make asynchronous calls using redux
  9. what are state and props in react.
  10. and some more questions are scenario based but are related to react and Redux and JavaScript

**Interview 3:**

1. Component life cycle methods
2. what is uncontrolled components?
3. How to pass data from parent component to child component with different ways?
4. what is virual dom? how it works?
5. what is Higher order react component
6. Difference between functional and class components
7. Factorial Algorithm
8. what are hooks ?
9. There is an array like
10. [1,1,2,4,5,6,4,7,2.......] what should be the approach to get unique elements
11. we have 500 numbers of record and display page have the pagination having 30 records per page. It has only forward/backward button.
12. Paginated data will come by ajax call but the data which already comes for them , I do not want to do any AJAX call. For example,
13. I click next button then AJAX call will occur but if click the back button then no AJAX call. What should be my approach.
14. alert(this) what will be output?
15. what is closure? how it works
16. constructor vs prototype in javascript
17. variable scope in javascript?
18. 15.what are the datatypes in javascript?
19. what are prototypes? how to check for object or function in react?
20. 0.1+0.2 ===0.3 what is the output?
21. how to connect store in the component?
22. how to pass store to all conmponents?
23. how will you handle music player at some place video paused and go to some other page and come back to video player
24. should start from same place where it stopped?
25. how to align div center?
26. css flexbox direction
27. margin vs padding in css
28. different ways to create object in javascript?
29. null vs undefined in javascript
30. how uni directional flow works in react?

**Interview 4:**

* 1. how to update url with params without reloading the page (not using react router history props)
  2. how to clone java script objects ?
  3. how to create filter options for different products, categories and identify the partial , full and not selection of radio buttons?
  4. how to create back, home ,recent apps (like android mobile phone ) using react and redux?
  5. how to find the most occurrent elements in a arrays (repeated values in array) ?
  6. how to handle mulitple keys strokes in the frontend ?
  7. how to create reusable input components or form components ?
  8. how to test a http call in unit testing ?
  9. explain the call stack and event loop in the js browser ?

**Interview 5:**

* 1. Component life cycle and there purpose.
  2. How to pass data from parent component to child component?
  3. How redux work?
  4. we have 400 numbers of record and display page have the pagination having 30 records per page. It has only forward/backward button. Paginated data will come by ajax call but the data which already comes for them , I do not want to do any AJAX call. For example, I click next button then AJAX call will occur but if click the back button then no AJAX call. What should be my approach
  5. Higher order react component
  6. Difference between functional and non-functional component
  7. Factorial Algorithm
  8. There if search box having autofill feature. Searched data is coming from server end. To get the proper search result , we need to call search API for every key stock. But it will increase the unnecessary server call. What should be approach to resolve this issue.
  9. There is an array like [1,1,2,4,5,6,4,7,2.......]. what should be the approach to get unique element

Interview 6:

1. Can you tell about yourself.
2. Which version of react you have worked?
3. while creating project, did you do all the configuration?
4. Did you develop the framework for the project?
5. You must have worked on webpack and
6. Have u done server side rendering?
7. Can u tell me the stage/lifecycle of components.
8. Case Question - Search related scenario. How you will fetch?
9. think about, when you want to display search result, I want to show some additional information than the component.
10. For a product, you create a component. While displaying the product, I want to display additional information which is not part of that component. How do I do that?
11. DO you have idea of stateless components.
12. Difference between class components and state components.
13. If I ask you, you know Virtual DoM. How is it different from Real DOM.
14. How comfortable you are with Node
15. Have you worked on Flux?
16. What is the advantage of using Flux over Redux.
17. How the data flows to Redux.
18. Where does the data get stored?
19. From Action it goes to reducer, from there, where does it go?
20. Can u give 1 advantage of Redux over Flux.
21. How state works in Flux and Redux.
22. How you deployed apps from your local machine to Production. How do you do that?
23. Can you tell me the Jenkins process for deploying app from local to production.
24. Where does your application get deployed – Cloud Server? IBM Cloud?
25. In your Jenkins file, what do you configure for that?
26. Is it a docker image which gets deployed to the server?
27. Do you have idea on Docker, How it works?
28. Can u give an overview of what have you worked on Nodejs.
29. Suppose you an application which is a node application, you are doing a server side entry using next. Have you heard Next (It is server side rendering tool for react). You are getting data from server side and giving to client. How will you that?
30. Have you gone through any of frameworks like express, …., etc
31. Apart from that, What is the new feature we have in ES6?
32. Think that I have an object stored with first name as x, second name as y

const arr = {fname: "Srinivas", lname: "murthy"}

If I write arr.age = 30;

What will be response of it? Why?

1. What does event do? Event Loop?
2. Consider this, I have a for loop.

for(var i=0;i<10;i++){ setTimeOut(function(){console.log(i)},3000}

what will be the result for this?

1. Think about, I want to swap your name. Can u write the code on screen and share. I don’t want to use inbuilt mentioned. Write code in editor and execute on browser.
2. How to find characters whose presence is more than once in your name. Write code in editor and execute on browser.
3. Can you explain your code? Is there any alternate approach? What is the time complexity? It is a for loop, It takes more time. How about Filter in React which is best for this approach?
4. Thank you for discussion. It is nice talking to you.

**Interview 7:**

1. difference b/w angularjs and reactjs?
2. 2.what is virtual dom?
3. 3.how will do code deployment?
4. 4.when will prefer anularjs and reactjs?
5. 5. js vs angularjs?

Interview 8

**Round 1**:

1. Design and write components for a Movie application where a list of movie genres are displayed on left and clicking on each genre, respective movie list has be to retrieved on the screen. Within this scenario, various react and redux related questions were covered. Some concepts covered : state, props, lifecycle methods, refs, keys, Arrow functions, API calls, pagination, redux actions, reducers, store.

**Round 2:**

1. Explain es6 features.
2. env in react
3. Design a autocomplete feature such that list of suggestions appear when user types more than 3 characters.
4. Steps on how API call happens in react and getting the data from store, reducers.
5. Logic based question, where algorithm to be explained based on the scenario.
6. Scenario:  There are 100 products in a e-commerce website and buy one get one free offer is going on such that if you buy 2 products, the lower priced product will be given free. eg: A costs 100, B costs 50, if you buy both A & B together you get both the products for 100(B will be free).
7. Algorithm to be calculated to get the least amount to be spent to buy all 100 products.
8. Approach on how it can be achieved using code.

Interview (across 3 rounds)

* + - 1. Is Js single threaded/multi threaded?  
         2.  Difference between slice and splice.  
         3.  How to set local storage?  
         4.  Semantic tags in html.  
         5.  What is the difference between functional component and class component in react?  
         6.  When using cra does it create an application which already has webpack in it?  
         7.  Why is typescript needed?  
         8.  Different ways of SEO.  
         9.  What is redux?  
         10. What are hooks?  
         11. Can we create our own state management tool without redux?  
         12. useReducer and useContext hooks to create a react-redux.  
         13. 3 principles of redux.  
         14. Css box model.  
         15. inline vs inline-block  
         16. flex vs grid  
         17. position relative and absolute  
         18. What are Promises?  
         19. Promises.all()  
         20. What is virtual dom?  
         21. React vs Vue vs Angular  
         22. SOLID design principles.  
         23. Currying in Js and where it is used in react?  
         24. Pure components in react.  
         25. How to improve performance of a react application?  
         26. Error boundries in react.  
         27. Debugging a react application.  
         28. Object.Assign in javascript.  
         29. Inheritance in JS  
         30. Prototypical inheritance in JS.

First Round:

1. What are the latest features in ES6

2. How to modularize the code before ES6?

3. Explain the variable scope ?

4. What is the Uni-directional data flow in react?

5. what are the hooks available in the react

6. How to achieve the component lifecycle in the functional component? write the program?

7. What are the impacts if we use react hooks and how compatible with the class components ?

8. What is the Class Component and functional component

9. Write a class component and handle the event handling.

10. What is the single source of truth?

11. What are the redux Flow ?

12. What is reducer ?

13. What is Action?

14. What is Redux Thunk and redux Saga?

15. How the Node api can be authenticated?

16. How routing can be performed node apis?

17. In class component, if we are using regular function instead of arrow function why it has to be bind in the constructor?

18. What is call, apply and bind ?

19. what is useContext and what is the difference with UseContext and redux Store ?

20. Why the two way binding is not available in react?

Second Round:

1. Write a simple program for anagram ?

2. What is the output of the below program ?

function foo(){

name = 'i am in foo';

console.log(this);

return {

name : 'i am at object',

f: () => this.name

};

};

console.log(foo().f());

3. What are all the different types of scope?

4. What is context in the javascript?

5. what is "this"?

6. what is event looping and How web api works and what is the usage ?

7. What is the output of the below program ?

setTimeout(()=>console.log('Hi'));

console.log(1);

8. What is the middleware in the Redux ?

9. What is the Redux Process ?

10. What is react hooks ?

11. How to update the count in minicart from other component data? What is the best approach ?

12. What is Critical rendering path ?

13. what design pattern for redux ?

14. Did you worked on any design patterns ?

15. Have you created the customized middleware? what is the approach ?

16. what are the data structure's have you worked like array, tree etc.?