**React Interview Question**

**Lead React MFE developer.**

**Panel R1**: Satish Vadlakonda

1. Angular and React differences  
   2. Limitations of React  
   3. ES6  
   4. Module Systems  
   6. Git commit strategy  
   5. some system design questions based on ecommerce example

**Lead React MFE developer.**

**Panel R1**: Satish Vadlakonda

1. Strengths and weakness as a developer
2. Ecommerce site that has different components(header/footer/left nav/ right content) developed in different frameworks(react/angular/vue)  
   - How will we design/develop  
   - How can we communicate between the components  
   - How can we use a common components(like a button) across different frameworks
3. What are the different module systems
4. Unit testing - difference between mock/stub/spy
5. State management   
   - Explain Redux flow  
   - Code example of communication between 2 parents what use the same child

**Senior React MFE developer.**

**Panel R1**: Nanda

1)Previous project architecture?  
2)What are the hooks ?  
3)How to improve the performance of the application ?  
4)Write HTML to display cards side by side ?  
5)Usememo vs. use callback ?  
6)About React.lazy?  
7)Next.js basic concepts ?  
8)About common components ?  
9)About performance loading ?  
10)HOC and custom hooks implementation?

**Senior React MFE developer.**

**Panel R1**: Sabitha Kadari

HTML:  
 • What are semantic tags? write down sample HTML for a blog page with sidebar and list of blogs  
 • difference between <p>, <span> and <label> tags when to use which tag.  
 • what are block, inline elements what are the differences  
 • meta tag to achieve responsiveness with syntax  
 CSS:  
 • Positions and movement of an element with each position (relative, absolute, fixed and sticky)  
 • various display properties and what is the differences between them  
 • media queries for specific screens  
 • grid and flexbox  
 JS:  
 • Recursion and use cases with example   
 • Hoisting  
 • difference between declaring variables with let and var  
 • call, apply and bind methods  
 • webComponents (agnostic)  
 React:  
 • class and functional components  
 • Hooks you know and explain each of them  
 • Custom Hook  
 • what is props drilling, how to overcome the issue (context with example)  
 • If a parent component have two children, how to re-render only 1 children  
 • What are real dom and shadow dom  
 • How the DOM will get updated  
 • how to manage state globally without using redux (useContext and useReducer)  
 Redux:  
 • What is Redux  
 • how the store updates the values  
 • redux hooks   
 • redux middle ware's you have worked on

**Panel R2**: Nanda

1) MicroFrontend using module federation, How the shell will render the MFE

2) past experience with Microfrontend and how you used to pass data between MFE's

3) questions on designing and how you divide a website into different components and why

4) if you want develop your epam.com website using MFE how many MFE will you create and why?

5) how to optimize the loading time of an MFE

6) useContext

7) Redux and middleware's you worked on and the differences. which one you choose to work with the most and why?

8) as redux is third party library with will take time to load compared to context(as it is built in). why you choose redux why not context

9) testing frameworks (asked about RTL)

10) typescript

**Senior React developer.**

**Panel R1**: Sandeep Chada

HTML & CSS

different position values and their behaviour

what is sass and how good you are in it

JS

what are closures

React

Ways to improve performance

different stages of react app

do we have alternate for jsx

props vs state

arrays vs lists in react

how can we decide right key to pass to list item

what are different ways of state management?

which one you choose flux vs redux and why?

Others

did u use oath

what is difference between access token and id token

code review steps you do

You have an app with so many fields in the form. How do you show to user? How do you prevent repeated clicks of button?

**Panel R2**: Mohammed Rafi

Below is a use case. How can we achieve this in react

5 components

2 components automatically rerender every 30 secs

3 components only on change of something

use of pure component?

can we make database call directly from react app? is it suggestible to do if possible?

what is MFE and what are the uses?

Questions specific to me

I served as Scrum master for 2 releases so asked about my role that time and how much hands-on I was doing

VBS is framework I worked so he asked what it and my work in that is

**Senior React developer.**

**Panel R1+R2: Mohammed** Rafi

1. About yourself, your tech stack , roles and responsibilities and recent projects
2. What is JSX . Why do we need it. Does browser understands JSX directly
3. Below is a use case. How can we achieve this in react

5 components that will call 5 different services to get data

2 components should automatically rerender after every 30 secs

3 components should pre-render on click of a button

Questions on implementation

1. Have you worked on RestAPI services backend or pure frontend?
2. What is synthetic event in react. Have you used in your project? What it will do?
3. What is HOC in react? How they are useful
4. Do you have prior experience with MFA? And, why do we need them?

Generic Questions:

1. If you are stuck with any problem /task what will you do? Have you experienced this scenario before and explain

**Senior React developer.**

**Panel R1+R2: Mohammed** Rafi

About yourself, your tech stack, roles and responsibilities and recent projects

What is VirtualDOM, have you used in your project?

Below is a use case. How can we achieve this in react

* 5 components that will call 5 different services to get data
* 2 components should automatically rerender after every 30 secs
* 3 components should rerender on click of a button

Have you worked on RestAPI services in backend?

How to embed 2 or more component as a single component, and how to communicate between them

**Senior React developer.**

**Panel R1+R2: Mohammed** Rafi

Here are the questions asked.

About yourself, your tech stack, roles and responsibilities and recent projects?

What is VirtualDOM, What is the advantage of VirtualDOM over regular DOM?

Below is a use case. How can we achieve this in react

· 5 components that will call 5 different services to get data?

· 2 components should automatically rerender after every 30 secs?

· 3 components should rerender based on the response of above components?

Have you worked on RestAPI services in backend?

What is React Portal?

How do you efficiently work with Forms in react?

React State management?

I have service which will give data of an employee and hierarchy, we need to display that data in ui exactly like teams organisation structure, how you will achieve that?

**Mid-level React developer.**

**Panel R1: Sabitha**

1. Semantic html(Tell some tags you have worked on)  
 2. Block level and inline elements differences  
 3. Basics of RTL(React testing library)  
 4. Types of functions in JS(Regular, function expressions, arrow functions)  
 5. Difference between Function.call() and Function.apply()  
 6. Arrow functions this keyword context with an example. Why do we use React over other frameworks (explain virtual dom and other advantages)  
 8. Functional and class-based components (Which do you prefer and why)  
 9. How do you pass state between parent and child components and follow up questions on state and props  
 10. React Context API(why do we use it and syntax for creating and using context)  
 11. Redux vs Context API  
 12. Which middleware have you used in Redux and why  
 13. One more scenario-based question on parent-child rendering and how to optimize it

Position: Mid level developer React

Panel R1 : Sandeep Chada

1. **Could you share your past experiences and the technologies you've worked with?**
2. **Explain the concept of closures in JavaScript.**
3. **What factors contribute to React's popularity in comparison to other frameworks?**
4. **Define the virtual DOM in React.**
5. **How do you handle list rendering in React while using JSX?**
6. **Describe your strategies which you have followed in your past for enhancing the performance of React applications.**
7. **Discuss the importance of routing in web applications and its relevance to React.**
8. **Highlight the differences between class-based and functional components in React. Which do you prefer and why?**
9. **What is the role of Redux in a React application? Explain the data flow within a Redux application.**
10. **Define Higher Order Components (HOC) in React.**
11. **List various events available in React.**
12. **Differentiate between local storage and session storage in the context of web browsers.**
13. **Difference between using cookies and local storage as we can achieve the same stuff with local storage/ session storage as well?**
14. **Explore techniques for handling authentication and OAuth tokens on a web application's front-end.**
15. **JSX & component composition in React**

**Panel 2: Mohammed Rafi**

1. Please provide an overview of your background, experiences, tech stack, and responsibilities.
2. Scenario-Based Question 1: Imagine a scenario where a parent component contains wrapped child components. Describe how you would implement a child component re-render when an event occurs in the parent component.
3. Explain Flux, its significance, and the reasons for its necessity.
4. Discuss why routing is essential for React apps.
5. Scenario-Based Question 2: Consider a scenario where multiple components make various API calls. Outline potential approaches for integrating these side effects seamlessly by implementing plug and play kind of component.
6. Have you been involved in end-to-end development, including deployments?
7. Scenario-Based Question 3: In a situation where errors occur within components, how would you log them? Have you encountered such scenarios before?
8. Scenario Based Question 4: If a crash occurs in the real DOM, does it impact the VDOM? Provide an explanation of the VDOM concept.
9. Tell more on the necessity of lazy loading in React applications.
10. Do you have a knowledge of the Git pipeline?
11. Do you have experience with Micro-Frontends (MFE)?
12. Have you worked with other frameworks like Angular?