FRONTEND INTERVIEW GUIDE

@DIMPLE KUMARI

FORMING A NETWORK OF FANTASTIC CODERS.

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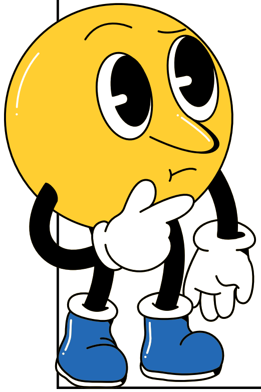

1. JAVASCRIPT INTERVIEW QUESTIONS

Basic Level

- What is the difference between 'Pass by Value' and 'Pass by Reference'?
- What is the difference between map and filter?
- What is the difference between map() and forEach()?
- What are the differences between call(), apply(), and bind()?
- List some key features of ES6.
- What is the spread operator in JavaScript?
- What is the rest operator in JavaScript?
- What is Temporal Dead Zone?
- What is a polyfill in JavaScript?
- What is prototype in JavaScript?

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1. JAVASCRIPT INTERVIEW QUESTIONS

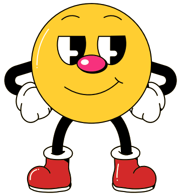
Intermediate Level

- What is IIFE?
- What are the different data types in JavaScript?
- What is authentication vs authorization?
- Difference between null and undefined?
- What is the output of 3+2+"7"?
- What is the difference between slice and splice in JavaScript?
- What is destructuring?
- What is setTimeout in JavaScript?
- What is setInterval in JavaScript?
- What are Promises in JavaScript?

1. JAVASCRIPT INTERVIEW QUESTIONS

Advanced Level

- What is a closure?
- What are callbacks in JavaScript?
- What are Higher Order Functions in JavaScript?
- What is the difference between == and === in JavaScript?
- What is hoisting?
- What are the differences between let, var, and const?
- What are the limitations of arrow functions?
- What is the difference between shallow copy and deep copy?
- What is event bubbling?
- What is event capturing?
- What is this in JavaScript and how does it behave in various scenarios?
- How do you optimize the performance of a JavaScript application?
- What is meant by debouncing and throttling?



2. REACT INTERVIEW QUESTIONS

Basic Level

- What is React?
- What are the key features of React?
- What is JSX, and why is it used in React?
- What is the difference between functional components and class components?
- What is Virtual DOM, and how does it work?
- What is the difference between State and Props?
- What is React Fiber?
- What is the purpose of React keys in lists?
- What are default props in React?
- How do you create a React component?
- What are synthetic events in React?
- How do you pass data between components in React?

2. REACT INTERVIEW QUESTIONS

Intermediate Level

- What are controlled and uncontrolled components in React?
- What is two-way binding in React?
- What is conditional rendering in React?
- How do you handle forms in React?
- What is the purpose of useState in React?
- What is the difference between useState and useReducer?
- What is the component lifecycle of a React class component?
- What is useEffect, and how does it work?
- What are React hooks?
- What are Higher Order Components (HOC) in React?
- What is prop drilling in React, and how can it be avoided?

2. REACT INTERVIEW QUESTIONS

Intermediate Level

- What is the Context API in React?
- What is the difference between Context API and Redux?
- What are React portals?
- What is reconciliation in React?
- What is lazy loading in React?
- What is the difference between useMemo and useCallback?
- What are refs in React?
- What is forwardRef in React?
- What is hydration in React?
- What is the difference between static generation (SSG) and server-side rendering (SSR)?
- How do you fetch data in React?

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2. REACT INTERVIEW QUESTIONS

Advanced Level (Performance Optimization & Architecture

- How does React optimize rendering with reconciliation?
- What are the different ways to prevent unnecessary re-renders in React?
- How do you handle large-scale state management in React applications?
- What is React Concurrent Mode, and how does it improve performance?
- What are render phases in React, and how do they affect performance?
- Explain React's scheduling and how it prioritizes updates.
- How does React handle memory management and prevent memory leaks?
- How can you improve time-to-interactivity (TTI) in React applications?
- What are React Fiber internals, and how do they help with concurrency?

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2. REACT INTERVIEW QUESTIONS

Advanced Level (Hooks & Functional Component Patterns)

- How does useEffect cleanup work, and when should it be used?
- How do you handle complex side effects using React hooks?
- What are compound components, and how do they improve component reusability?
- Explain the React batching process in event handlers and hooks.
- How do you handle event delegation in React efficiently?
- Can you explain the difference between useRef and useState in managing state?
- What are the common pitfalls of using React hooks, and how can they be avoided?
- What are custom hooks, and how do they differ from built-in hooks?
- How does the useImperativeHandle hook work?
- When should you use useReducer over useState?

PROJECTS FOR PRACTICE

- TodoList
- ThemeMode
- StarRating
- ProgressBar
- PasswordGenerator
- PaginationComponent
- OtpLogin
- NestedComments
- NavbarComponent
- ModalComponent
- LikeButton
- AccordionComponent
- CalculatorApp
- CarouselComponent
- CountdownTimer
- CustomHook
- DropdownComponent
- FormValidation
- GridLights
- TicTacToe

THANK YOU FOR READING!

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