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SR.NO	Project NAME	Technology
1	Online E-Learning Platform Hub	React+Springboot+MySql
2	PG Mates / RoomSharing / Flat Mates	React+Springboot+MySql
3	Tour and Travel management System	React+Springboot+MySql
4	Election commition of India (online Voting System)	React+Springboot+MySql
5	HomeRental Booking System	React+Springboot+MySql
6	Event Management System	React+Springboot+MySql
7	Hotel Management System	React+Springboot+MySql
8	Agriculture web Project	React+Springboot+MySql
9	AirLine Reservation System / Flight booking System	React+Springboot+MySql
10	E-commerce web Project	React+Springboot+MySql
11	Hospital Management System	React+Springboot+MySql
12	E-RTO Driving licence portal	React+Springboot+MySql
13	Transpotation Services portal	React+Springboot+MySql
14	Courier Services Portal / Courier Management System	React+Springboot+MySql
15	Online Food Delivery Portal	React+Springboot+MySql
16	Muncipal Corporation Management	React+Springboot+MySql
17	Gym Management System	React+Springboot+MySql
18	Bike/Car ental System Portal	React+Springboot+MySql
19	CharityDonation web project	React+Springboot+MySql
20	Movie Booking System	React+Springboot+MySql

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21	Job Portal web project	React+Springboot+MySql
22	LIC Insurance Portal	React+Springboot+MySql
23	Employee Management System	React+Springboot+MySql
24	Payroll Management System	React+Springboot+MySql
25	RealEstate Property Project	React+Springboot+MySql
26	Marriage Hall Booking Project	React+Springboot+MySql
27	Online Student Management portal	React+Springboot+MySql
28	Resturant management System	React+Springboot+MySql
29	Solar Management Project	React+Springboot+MySql
30	OneStepService LinkLabourContractor	React+Springboot+MySql
31	Vehical Service Center Portal	React+Springboot+MySql
32	E-wallet Banking Project	React+Springboot+MySql
33	Blogg Application Project	React+Springboot+MySql
34	Car Parking booking Project	React+Springboot+MySql
35	OLA Cab Booking Portal	React+NextJs+Springboot+MySql
36	Society management Portal	React+Springboot+MySql
37	E-College Portal	React+Springboot+MySql
38	FoodWaste Management Donate System	React+Springboot+MySql
39	Sports Ground Booking	React+Springboot+MySql
40	BloodBank mangement System	React+Springboot+MySql

41	Bus Tickit Booking Project	React+Springboot+MySql
42	Fruite Delivery Project	React+Springboot+MySql
43	Woodworks Bed Shop	React+Springboot+MySql
44	Online Dairy Product sell Project	React+Springboot+MySql
45	Online E-Pharma medicine sell Project	React+Springboot+MySql
46	FarmerMarketplace Web Project	React+Springboot+MySql
47	Online Cloth Store Project	React+Springboot+MySql
48	Train Ticket Booking Project	React+Springboot+MySql
49	Quizz Application Project	JSP+Springboot+MySql
50	Hotel Room Booking Project	React+Springboot+MySql
51	Online Crime Reporting Portal Project	React+Springboot+MySql
52	Online Child Adoption Portal Project	React+Springboot+MySql
53	online Pizza Delivery System Project	React+Springboot+MySql
54	Online Social Complaint Portal Project	React+Springboot+MySql
55	Electric Vehical management system Project	React+Springboot+MySql
56	Online mess / Tiffin management System Project	React+Springboot+MySql
57		React+Springboot+MySql
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60		React+Springboot+MySql

Spring Boot + React JS + MySQL Project List

Sr.No	Project Name	YouTube Link
1	Online E-Learning Hub Platform Project	https://youtu.be/KMjyBaWmgzg?si=YckHuNzs7eC84-IW
2	PG Mate / Room sharing/Flat sharing	https://youtu.be/4P9clHg3wvk?si=4uEsi0962CG6Xodp
3	Tour and Travel System Project Version 1.0	https://youtu.be/-UHOBywHaP8?si=KHHfE_A0uv725f12
4	Marriage Hall Booking	https://youtu.be/VXz0kZQi5to?si=ILOS-QG3TpAFP5k7
5	Ecommerce Shopping project	https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq
6	Bike Rental System Project	https://youtu.be/FlzsAmIBCbk?si=7ujQTJqEgkQ8ju2H
7	Multi-Restaurant management system	https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB
8	Hospital management system Project	https://youtu.be/lynlouBZvY4?si=CXzQs3BsRkjKhZCw
9	Municipal Corporation system Project	https://youtu.be/cVMx9NVyl4I?si=qX0oQt-GT-LR_5jF
10	Tour and Travel System Project version 2.0	https://youtu.be/_4u0mB9mHXE?si=gDiAhKBowi2gNUKZ

Sr.No	Project Name	YouTube Link
11	Tour and Travel System Project version 3.0	https://youtu.be/Dm7nOdpasWg?si=P_Lh2gcOFhlyudug
12	Gym Management system Project	https://youtu.be/J8_7Zrkg7ag?si=LcxV51ynfUB7OptX
13	Online Driving License system Project	https://youtu.be/3yRzsMs8TLE?si=JRI_z4FDx4Gmt7fn
14	Online Flight Booking system Project	https://youtu.be/m755rOwdk8U?si=HURvAY2VnizlyJlh
15	Employee management system project	https://youtu.be/ID1iE3W_GRw?si=Y_jv1xV_BljhrD0H
16	Online student school or college portal	https://youtu.be/4A25aEKfei0?si=RoVgZtxMk9TPdQvD
17	Online movie booking system project	https://youtu.be/Lfjv_U74SC4?si=fiDvrhhrjb4KSIsm
18	Online Pizza Delivery system project	https://youtu.be/Tp3izreZ458?si=8eWAOzA8SVdNwlyM
19	Online Crime Reporting system Project	https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO
20	Online Children Adoption Project	https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802I7N

1. What is React JS?

- a) A JavaScript library for building user interfaces (**Correct Answer**)
- b) A server-side scripting language
- c) A relational database management system
- d) An operating system

2. What does JSX stand for in React JS?

- a) JavaScript XML (**Correct Answer**)
- b) JSON with XML
- c) Java Standard Extensions
- d) JavaScript Extensions

3. Which of the following is NOT a core feature of React JS?

- a) Virtual DOM
- b) JSX syntax
- c) Two-way data binding (**Correct Answer**)
- d) Component-based architecture

4. Which lifecycle method is used for fetching data in React JS?

- a) componentWillMount()
- b) componentDidMount() (**Correct Answer**)
- c) componentDidUpdate()
- d) componentWillReceiveProps()

5. In React, which method is used to change the state of a component?

- a) setState() (**Correct Answer**)
- b) changeState()
- c) updateState()
- d) modifyState()

6. What is the purpose of React Router?

- a) To manage state in React components
- b) To handle routing and navigation in React applications (**Correct Answer**)
- c) To perform server-side rendering in React
- d) To manage HTTP requests in React

7. What is the role of props in React components?

- a) Props are used for defining component state
- b) Props are used for styling components
- c) Props are used for passing data from parent to child components (**Correct Answer**)
- d) Props are used for defining component methods

8. Which function is used to render a React component into the DOM?

- a) ReactDOM.render() (**Correct Answer**)
- b) React.renderComponent()
- c) ReactDOMComponent.render()
- d) ReactComponent.render()

9. Which of the following is used for creating reusable UI components in React?

- a) Functions
- b) Classes
- c) Modules
- d) Props (**Correct Answer**)

10. What method is called once the component is removed from the DOM in React?

- a) componentWillUnmount() (**Correct Answer**)
- b) componentDidUpdate()
- c) componentWillMount()
- d) componentDidMount()

11. What is the purpose of keys in React lists?

- a) To uniquely identify list items and help React identify which items have changed, added, or removed **(Correct Answer)**
- b) To apply styling to list items
- c) To determine the order of list items
- d) Keys are not used in React lists

12. Which method is used to conditionally render components in React?

- a) renderIf()
- b) renderConditionally()
- c) render() method with if-else statements
- d) render() method with conditional rendering syntax like ternary operators or logical && **(Correct Answer)**

13. What is the purpose of PropTypes in React?

- a) To define types for React components
- b) To specify default values for props
- c) To validate the props passed to a component **(Correct Answer)**
- d) PropTypes are not used in React

14. Which of the following is used to manage state across multiple components in React?

- a) Redux **(Correct Answer)**
- b) useState hook
- c) Context API
- d) Props drilling

15. In React, what is the recommended way to perform side effects such as data fetching or DOM manipulation?

- a) Inside the constructor of the component
- b) Inside the render method
- c) Using lifecycle methods like componentDidMount() or useEffect() hook **(Correct Answer)**
- d) Using setTimeout()

16. Which of the following is true about PureComponent in React?

- a) It is deprecated in favor of functional components
- b) It automatically implements shouldComponentUpdate() with a shallow prop and state comparison **(Correct Answer)**
- c) It is used for defining stateful components
- d) It is used for server-side rendering in React

17. What is the purpose of the ref attribute in React?

- a) To reference an external JavaScript file
- b) To create a reference to a DOM element or a React component instance **(Correct Answer)**
- c) To define the relative path of a component
- d) To specify the location of a resource

18. Which method is called after the component is updated and the DOM has been re-rendered in React?

- a) componentDidUpdate() **(Correct Answer)**
- b) componentWillUpdate()
- c) componentWillMount()
- d) componentDidRender()

19. What is the purpose of React Fragments?

- a) To create virtual DOM elements
- b) To improve performance by reducing unnecessary re-renders
- c) To group multiple children without adding extra nodes to the DOM **(Correct Answer)**
- d) To apply animations to React components

20. Which of the following is NOT a hook provided by React?

- a) useState()
- b) useEffect()
- c) useContext()
- d) createClass()

21. What is the purpose of the useCallback hook in React?

- a) To memoize functions so that they are not recreated on every render (**Correct Answer**)
- b) To manage state within functional components
- c) To fetch data from an API
- d) To define context providers

22. How can you optimize performance in React applications?

- a) By using PureComponent or memoization for functional components (**Correct Answer**)
- b) By increasing the number of re-renders
- c) By adding more unnecessary DOM elements
- d) By using synchronous rendering

23. What is the purpose of the key prop in React?

- a) To specify the type of component
- b) To define the initial state of a component
- c) To uniquely identify elements in an array of children and improve performance during reconciliation (**Correct Answer**)
- d) To define CSS classes for styling

24. How does React handle events?

- a) React uses a synthetic event system that normalizes events across different browsers (**Correct Answer**)
- b) React relies on native browser events exclusively
- c) React doesn't support event handling
- d) React events are handled asynchronously

25. What is the purpose of the useContext hook in React?

- a) To manage component state
- b) To handle context within class components
- c) To access context values in functional components (**Correct Answer**)
- d) To fetch data from an external API

26. What is the key difference between state and props in React?

- a) State is immutable, while props are mutable
- b) State is passed from parent to child components, while props are managed internally by components
- c) State is managed internally by components and can be changed, while props are passed from parent to child components and are immutable (**Correct Answer**)
- d) State and props are interchangeable concepts in React

27. How can you pass data from a child to a parent component in React?

- a) By using the setState method
- b) By using props (**Correct Answer**)
- c) By using context
- d) By using event listeners

28. What is the purpose of the useMemo hook in React?

- a) To perform data fetching
- b) To subscribe to changes in state or props
- c) To memoize expensive calculations and optimize performance (**Correct Answer**)
- d) To manage side effects in functional components

29. What is the purpose of the useReducer hook in React?

- a) To manage complex state logic and perform state transitions (**Correct Answer**)
- b) To manage component lifecycle events
- c) To create reusable custom hooks
- d) To fetch data from an API

30. Which method is used to handle errors in React components?

- a) componentDidCatch (**Correct Answer**)
- b) componentDidError
- c) componentDidFail
- d) componentDidErrorBound

31. What is the purpose of the useRef hook in React?

- a) To create references to DOM elements or React components **(Correct Answer)**
- b) To manage component state
- c) To subscribe to context changes
- d) To perform asynchronous operations

32. Which of the following statements is true about React portals?

- a) React portals allow you to render components outside the DOM hierarchy of the parent component **(Correct Answer)**
- b) React portals are used to create reusable UI components
- c) React portals are deprecated in favor of other techniques
- d) React portals are used for server-side rendering only

33. What is the purpose of the forwardRef function in React?

- a) To forward props from parent to child components
- b) To forward DOM attributes from parent to child components
- c) To forward refs from parent to child components **(Correct Answer)**
- d) To forward context from parent to child components

34. Which of the following is NOT a valid lifecycle method in React?

- a) componentWillMount
- b) componentWillUpdate
- c) componentWillReceiveProps
- d) componentWillUnmount **(Correct Answer)**

35. What is the purpose of the React.Fragment component in React?

- a) To create a new React component
- b) To group multiple elements without adding extra nodes to the DOM **(Correct Answer)**
- c) To define global styles for the entire application
- d) To manage component state

36. Which of the following statements about React context is true?

- a) React context is used to manage component state
- b) React context allows you to pass data through the component tree without having to pass props down manually **(Correct Answer)**
- c) React context is primarily used for styling components
- d) React context is a replacement for Redux

37. What is the purpose of the createRef function in React?

- a) To create references to DOM elements or React components
- b) To create new React components
- c) To create new context objects
- d) To create references to functional components **(Correct Answer)**

38. Which of the following is NOT a valid way to style components in React?

- a) Inline styles
- b) External CSS files
- c) Styled-components library
- d) Using <style> tags inside JSX **(Correct Answer)**

39. What is the purpose of the dangerouslySetInnerHTML attribute in React?

- a) To sanitize HTML input before rendering it
- b) To escape special characters in HTML input
- c) To set the inner HTML of a React component from a string **(Correct Answer)**
- d) To prevent XSS attacks

40. What is the purpose of the useEffect hook in React?

- a) To perform side effects in functional components **(Correct Answer)**
- b) To manage component state
- c) To fetch data from an API
- d) To subscribe to context changes

41. Which of the following lifecycle methods is called only once, after the initial render?

- a) componentWillMount
- b) componentDidMount **(Correct Answer)**
- c) componentDidUpdate
- d) componentWillUnmount

42. In React, what is the purpose of the key prop when rendering a list of components?

- a) It defines the style of each list item
- b) It helps React identify which items have changed, are added, or are removed in the list **(Correct Answer)**
- c) It sets the initial state of each list item
- d) It specifies the order of the list items

43. Which hook is used for memoizing the result of a function so that it is only recomputed when its dependencies change?

- a) useMemo **(Correct Answer)**
- b) useCallback
- c) useEffect
- d) useRef

44. What is the purpose of the shouldComponentUpdate method in React?

- a) To fetch data from an API before the component updates
- b) To determine if a component should re-render by returning true or false **(Correct Answer)**
- c) To update the component's state
- d) To perform side effects after the component updates

45. In React, what is the recommended way to handle forms?

- a) Using regular HTML form elements
- b) Using controlled components where form data is handled by React state **(Correct Answer)**
- c) Using uncontrolled components where form data is handled by the DOM
- d) Using Redux for form state management

46. Which of the following is NOT a valid use case for React context?

- a) Theme management
- b) Localization
- c) Managing application-wide state **(Correct Answer)**
- d) Passing props between deeply nested components

47. What is the purpose of the setState function in React?

- a) To update the component's state **(Correct Answer)**
- b) To define the initial state of a component
- c) To fetch data from an API
- d) To subscribe to context changes

48. Which hook is used to perform side effects in functional components?

- a) useState
- b) useEffect **(Correct Answer)**
- c) useContext
- d) useReducer

49. In React, how can you conditionally render components?

- a) By using the if-else statement inside the render method
- b) By using ternary operators inside JSX **(Correct Answer)**
- c) By using switch statements inside JSX
- d) By using the renderIf function

50. Which of the following is a benefit of using React JS?

- a) Improved performance due to the use of virtual DOM
- b) Reusability of components
- c) Easy integration with other libraries and frameworks
- d) All of the above **(Correct Answer)**

51. In React, which method is called before the component is removed from the DOM?

- a) `componentWillUnmount` (**Correct Answer**)
- b) `componentDidMount`
- c) `componentDidUpdate`
- d) `componentWillMount`

52. What is the purpose of the `useContext` hook in React?

- a) To manage component state
- b) To handle context within class components
- c) To access context values in functional components (**Correct Answer**)
- d) To fetch data from an external API

53. Which of the following is a valid way to define a React functional component?

- a) `function MyComponent() {}`
- b) `const MyComponent = () => {}`
- c) `class MyComponent extends React.Component {}`
- d) All of the above (**Correct Answer**)

54. What is the primary role of ReactDOM in a React application?

- a) To handle routing and navigation
- b) To manage global application state
- c) To render React components into the DOM (**Correct Answer**)
- d) To handle server-side rendering

55. What is the purpose of the `useMemo` hook in React?

- a) To memoize the result of a function so that it is only recomputed when its dependencies change (**Correct Answer**)
- b) To perform side effects in functional components
- c) To manage component state
- d) To subscribe to context changes

56. In React, what does it mean to lift state up?

- a) It refers to managing state at the lowest level of the component tree
- b) It refers to passing state from child to parent components
- c) It refers to moving state to a common ancestor component to share it between sibling components (**Correct Answer**)
- d) It refers to removing state from a component

57. What is the purpose of the `defaultProps` property in a React component?

- a) To define default values for props (**Correct Answer**)
- b) To set the initial state of a component
- c) To define the default styling for a component
- d) To handle default event behavior

58. In React, what is the purpose of the `key` prop when rendering a list of components?

- a) It defines the style of each list item
- b) It helps React identify which items have changed, are added, or are removed in the list (**Correct Answer**)
- c) It sets the initial state of each list item
- d) It specifies the order of the list items

59. What is the purpose of the `children` prop in a React component?

- a) It represents the child components rendered inside the component (**Correct Answer**)
- b) It defines the default content of the component
- c) It passes data from parent to child components
- d) It defines the structure of the component

60. Which of the following statements about React components is true?

- a) Functional components can have lifecycle methods
- b) Class components can return multiple elements without using a wrapper element
- c) Functional components are simpler and easier to read and write compared to class components (**Correct Answer**)
- d) All of the above

61. What is the purpose of the useRef hook in React?

- a) To create references to DOM elements or React components **(Correct Answer)**
- b) To manage component state
- c) To subscribe to context changes
- d) To perform asynchronous operations

62. In React, what is the recommended way to handle forms?

- a) Using regular HTML form elements
- b) Using controlled components where form data is handled by React state **(Correct Answer)**
- c) Using uncontrolled components where form data is handled by the DOM
- d) Using Redux for form state management

63. Which hook is used to perform side effects in functional components?

- a) useState
- b) useEffect **(Correct Answer)**
- c) useContext
- d) useReducer

64. What is the purpose of the useContext hook in React?

- a) To manage component state
- b) To handle context within class components
- c) To access context values in functional components **(Correct Answer)**
- d) To fetch data from an external API

65. In React, which method is called before the component is removed from the DOM?

- a) componentWillUnmount **(Correct Answer)**
- b) componentDidMount
- c) componentDidUpdate
- d) componentWillMount

66. What is the primary role of ReactDOM in a React application?

- a) To handle routing and navigation
- b) To manage global application state
- c) To render React components into the DOM **(Correct Answer)**
- d) To handle server-side rendering

67. What is the purpose of the useMemo hook in React?

- a) To memoize the result of a function so that it is only recomputed when its dependencies change **(Correct Answer)**
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72. Which of the following statements about React components is true?

- a) Functional components can have lifecycle methods
- b) Class components can return multiple elements without using a wrapper element
- c) Functional components are simpler and easier to read and write compared to class components (**Correct Answer**)
- d) All of the above

73. What is the primary role of ReactDOM in a React application?

- a) To handle routing and navigation
- b) To manage global application state
- c) To render React components into the DOM (**Correct Answer**)
- d) To handle server-side rendering

74. In React, which hook is used to perform side effects after every render?

- a) useEffect (**Correct Answer**)
- b) useState
- c) useMemo
- d) useContext

75. What is the purpose of the useMemo hook in React?

- a) To memoize the result of a function so that it is only recomputed when its dependencies change (**Correct Answer**)
- b) To manage component state
- c) To perform side effects in functional components
- d) To subscribe to context changes

76. In React, what does it mean to lift state up?

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80. Which of the following statements about React components is true?

- a) Functional components can have lifecycle methods
- b) Class components can return multiple elements without using a wrapper element
- c) Functional components are simpler and easier to read and write compared to class components (**Correct Answer**)
- d) All of the above

81. Which of the following statements correctly imports React in a JSX file?

- a) `import React from 'react';` **(Correct Answer)**
- b) `require('react');`
- c) `import { React } from 'react';`
- d) `import React from 'React';`

82. What is the purpose of the following code snippet in a React component?

```
import React from 'react';

function MyComponent() {
  return (
    <div>Hello, world!</div>
  );
}
```

- a) It imports the React library **(Correct Answer)**
- b) It defines a functional component named MyComponent
- c) It renders a div element with the text "Hello, world!"
- d) All of the above

83. In React, what is the correct syntax for rendering a JavaScript expression inside JSX?

- a) `{ var }`
- b) `{{ var }}`
- c) `{ var }` **(Correct Answer)**
- d) `{{ var }}`

84. What will the following React component render?

```
import React from 'react';

function MyComponent() {
  const items = ['apple', 'banana', 'orange'];
  return (
    <ul>
      {items.map(item => <li key={item}>{item}</li>)}
    </ul>
  );
}
```

- a) A list of fruits: apple, banana, orange **(Correct Answer)**
- b) An unordered list with three items: apple, banana, orange
- c) A compilation error
- d) An empty list

85. In React, which lifecycle method is called immediately after a component is mounted?

- a) `componentWillMount()`
- b) `componentDidMount()` **(Correct Answer)**
- c) `componentWillUnmount()`
- d) `componentDidUpdate()`

86. What is the correct way to pass props to a component in React?

- a) `<MyComponent props={data} />`
- b) `<MyComponent {props} />`
- c) `<MyComponent {...props} />` **(Correct Answer)**
- d) `<MyComponent props={{data}} />`

87. What is the purpose of the following React code snippet?

```
import React, { useState } from 'react';

function MyComponent() {
  const [count, setCount] = useState(0);

  return (
    <div>
      <p>You clicked {count} times</p>
      <button onClick={() => setCount(count + 1)}>
```

```
    Click me
  </button>
</div>
);
}
```

- a) It defines a functional component with a state variable named count that increments on button click (**Correct Answer**)
- b) It renders a paragraph element with the text "You clicked {count} times"
- c) It renders a button element with the text "Click me"
- d) It imports the useState hook from the React library

88. In React, what is the purpose of the **key** attribute when rendering a list of components?

- a) It defines the styling for each component in the list
- b) It specifies the order of the components in the list
- c) It helps React identify which items have changed, are added, or are removed in the list (**Correct Answer**)
- d) It defines the initial state of each component in the list

89. What does JSX stand for in React?

- a) JavaScript XML (**Correct Answer**)
- b) JavaScript Extension
- c) JavaScript XML Syntax
- d) JavaScript Extension Library

90. In React, what is the purpose of the **onClick** attribute in a button element?

- a) It defines the button's appearance
- b) It specifies the action to be performed when the button is clicked (**Correct Answer**)
- c) It triggers the button's hover effect
- d) It determines the button's accessibility properties

91. What will be the output of the following React component?

```
import React from 'react';

const MyComponent = () => {
  const name = "Alice";
  return (
    <div>
      <p>Hello, {name}!</p>
    </div>
  );
};

export default MyComponent;
```

- a) Hello, Alice! **(Correct Answer)**
- b) Hello, {name}!
- c) Hello, World!
- d) Hello, React!

92. How can you conditionally render elements in React?

- a) Using the if-else statement inside the JSX
- b) Using the ternary operator inside the JSX **(Correct Answer)**
- c) Using the switch-case statement inside the JSX
- d) Using the while loop inside the JSX

93. What is the purpose of the `useState` hook in React?

- a) To fetch data from an API
- b) To manage component state **(Correct Answer)**
- c) To handle context within functional components
- d) To perform side effects in functional components

94. How can you style a React component?

- a) Using inline styles with the `style` attribute
- b) Using external CSS files
- c) Using CSS-in-JS libraries like styled-components
- d) All of the above **(Correct Answer)**

95. What is the correct way to handle form input in React?

- a) Using the `value` attribute for controlled components **(Correct Answer)**
- b) Using the `defaultValue` attribute for controlled components
- c) Using the `onChange` event handler for uncontrolled components
- d) Using the `onSubmit` event handler for controlled components

96. What is the purpose of the `useEffect` hook in React?

- a) To memoize the result of a function
- b) To manage component state
- c) To perform side effects after every render **(Correct Answer)**
- d) To subscribe to context changes

97. How do you define a reusable component in React?

- a) By creating a function or class that returns JSX **(Correct Answer)**
- b) By using a global variable to store the component
- c) By including HTML code directly in the render method
- d) By importing a component from an external library

98. What is the purpose of the `map` function in JavaScript when used with React components?

- a) To iterate over an array and return a new array of the same length
- b) To create a new array with the results of calling a provided function on every element in the calling array **(Correct Answer)**
- c) To filter out elements from an array based on a condition
- d) To sort the elements of an array based on a condition

99. In React, how do you handle events?

- a) By passing event handlers as props to child components

- b) By using synthetic events that wrap native browser events (**Correct Answer**)
- c) By using the `addEventListener` method directly on DOM elements
- d) By defining event handlers directly in JSX

100. What is the purpose of the `key` prop when rendering a list of components in React? - a) To define the styling for each component in the list - b) To specify the order of the components in the list - c) To help React identify which items have changed, are added, or are removed in the list (**Correct Answer**) - d) To define the initial state of each component in the list

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- **101. In React, which lifecycle method is called when a component is about to update?**
 - a) componentWillMount
 - b) componentDidMount
 - c) componentWillUpdate (**Correct Answer**)
 - d) componentWillUnmount
- **102. How do you access route parameters in a React component using React Router?**
 - a) By using the `this.params` object
 - b) By using the `this.props.params` object
 - c) By using the `useParams()` hook (**Correct Answer**)
 - d) By accessing the `params` object directly from the router
- **103. What is the purpose of the `Fragment` component in React?**
 - a) To create a new component
 - b) To group multiple elements without adding extra nodes to the DOM (**Correct Answer**)
 - c) To provide default props to a component
 - d) To define global styles for the entire application
- **104. How do you prevent a component from re-rendering unnecessarily in React?**
 - a) By using the `shouldComponentUpdate` method in class components
 - b) By using the `React.memo` higher-order component for functional components
 - c) By using the `PureComponent` class in class components
 - d) All of the above (**Correct Answer**)
- **105. What does the `dangerouslySetInnerHTML` attribute do in React?**
 - a) It allows you to define HTML attributes with dynamic values
 - b) It sets the inner HTML of a React element from a string (**Correct Answer**)
 - c) It allows you to define inline styles with dynamic values
 - d) It prevents XSS attacks in React components
- **106. How do you conditionally apply styles to a React component?**
 - a) By using the `style` attribute with an object containing conditional styles
 - b) By using the `className` attribute with conditional CSS classes
 - c) By using CSS-in-JS libraries like styled-components
 - d) All of the above (**Correct Answer**)
- **107. What is the purpose of the `forwardRef` function in React?**
 - a) To forward props from parent to child components
 - b) To forward DOM attributes from parent to child components
 - c) To forward refs from parent to child components (**Correct Answer**)
 - d) To forward context from parent to child components
- **108. How do you perform code splitting in React?**
 - a) By using dynamic imports with `React.lazy` and `Suspense`
 - b) By splitting the code manually into smaller chunks
 - c) By using the `SplitChunksPlugin` in Webpack
 - d) All of the above (**Correct Answer**)
- **109. What is the purpose of the `useReducer` hook in React?**
 - a) To manage component state
 - b) To manage complex state logic and perform state transitions (**Correct Answer**)
 - c) To create reusable custom hooks
 - d) To fetch data from an API
- **110. How do you handle errors in React components?**
 - a) By using the `try-catch` statement inside the `render` method
 - b) By using the `componentDidCatch` lifecycle method (**Correct Answer**)
 - c) By using the `ErrorBoundary` component provided by React
 - d) All of the above

- **111. What is the purpose of the `useEffect` hook in React?**
 - a) To manage component state
 - b) To perform side effects after every render (**Correct Answer**)
 - c) To create reusable custom hooks
 - d) To fetch data from an API
- **112. How do you conditionally render elements in React?**
 - a) Using the if-else statement inside the JSX
 - b) Using the ternary operator inside the JSX (**Correct Answer**)
 - c) Using the switch-case statement inside the JSX
 - d) Using the while loop inside the JSX
- **113. What is the purpose of the `children` prop in a React component?**
 - a) It represents the child components rendered inside the component (**Correct Answer**)
 - b) It defines the default content of the component
 - c) It passes data from parent to child components
 - d) It defines the structure of the component
- **114. How do you define a reusable component in React?**
 - a) By creating a function or class that returns JSX (**Correct Answer**)
 - b) By using a global variable to store the component
 - c) By including HTML code directly in the render method
 - d) By importing a component from an external library
- **115. What is the purpose of the `key` prop when rendering a list of components in React?**
 - a) To define the styling for each component in the list
 - b) To specify the order of the components in the list
 - c) To help React identify which items have changed, are added, or are removed in the list (**Correct Answer**)
 - d) To define the initial state of each component in the list

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What is Node.js?

- a) A web browser
- b) A server-side JavaScript runtime
- c) A database
- d) A markup language

Answer: b) A server-side JavaScript runtime

2. Which platform is Node.js built on?

- a) Java
- b) .NET
- c) Chrome's V8 JavaScript engine
- d) Python

Answer: c) Chrome's V8 JavaScript engine

3. What is npm in the context of Node.js?

- a) Node Package Manager
- b) Node Programming Module
- c) New Programming Mechanism
- d) Node Project Manager

Answer: a) Node Package Manager

4. Which of the following modules is commonly used for handling file operations in Node.js?

- a) fs
- b) http
- c) net
- d) path

Answer: a) fs

5. What command is used to install a Node.js package globally?

- a) npm add
- b) npm install -g
- c) npm global
- d) npm setup

Answer: b) npm install -g

6. What is the purpose of the `require` function in Node.js?

- a) To define a new variable
- b) To include external modules
- c) To declare a function
- d) To create a new file

Answer: b) To include external modules

7. Which of the following is an HTTP framework for Node.js?

- a) Express
- b) Angular
- c) React
- d) Vue

Answer: a) Express

8. What is the role of the `process` object in Node.js?

- a) Handling file operations
- b) Managing network requests
- c) Controlling the Node.js process
- d) Parsing JSON data

Answer: c) Controlling the Node.js process

9. What does the term "callback" refer to in the context of Node.js?

- a) A function passed as an argument to another function
- b) A module for handling database queries
- c) A built-in method for asynchronous tasks
- d) A type of error in Node.js

Answer: a) A function passed as an argument to another function

10. How do you handle errors in Node.js asynchronous code?

- a) Using try-catch blocks
- b) Using the `throw` statement
- c) Using callback functions
- d) Using the `catch` method

Answer: c) Using callback functions

11. What is the purpose of the `module.exports` object in Node.js?

- a) To import external modules
- b) To export variables and functions from a module
- c) To create a new module
- d) To include built-in modules

Answer: b) To export variables and functions from a module

12. Which of the following is a package manager alternative to npm in Node.js?

- a) Bower
- b) Yarn
- c) Grunt
- d) Gulp

Answer: b) Yarn

13. What does the term "event loop" refer to in Node.js?

- a) A loop for iterating through arrays
- b) A loop for handling HTTP requests
- c) A mechanism for handling events asynchronously
- d) A loop for reading and writing files

Answer: c) A mechanism for handling events asynchronously

14. What is the role of the `Buffer` class in Node.js?

- a) Handling file operations
- b) Reading user input
- c) Storing binary data
- d) Controlling network requests

Answer: c) Storing binary data

15. Which module is used for creating a web server in Node.js?

- a) net
- b) http
- c) fs
- d) path

Answer: b) http

16. How can you install a specific version of a Node.js package using npm?

- a) npm install package@version
- b) npm install package-version
- c) npm install -v package
- d) npm install package --version

Answer: a) npm install package@version

17. What is the purpose of the `__dirname` variable in Node.js?

- a) To store the current module's filename
- b) To get the current working directory of the script
- c) To represent the main application directory
- d) To reference the parent directory

Answer: b) To get the current working directory of the script

18. Which of the following is a valid way to import the `fs` module in Node.js?

- a) `import fs from 'fs';`
- b) `const fs = require('fs');`
- c) `include fs from 'fs';`
- d) `const fs = import('fs');`

Answer: b) `const fs = require('fs');`

19. How can you handle concurrent requests in Node.js?

- a) Using multiple threads
- b) Using synchronous code
- c) Using the `async` keyword
- d) Using the event-driven model

Answer: d) Using the event-driven model

20. What is the purpose of the `body-parser` middleware in Express.js?

- a) To parse JSON data in the request body
- b) To handle HTTP headers
- c) To encrypt data
- d) To set response status codes

Answer: a) To parse JSON data in the request body

21. Which of the following is the correct way to install Express.js using npm?

- a) `npm install express`
- b) `npm install express.js`
- c) `npm add express`
- d) `npm setup express`

Answer: a) npm install express

22. What is the purpose of the `next` function in Express.js middleware?

- a) To end the request-response cycle
- b) To pass control to the next middleware function
- c) To redirect the client to another route
- d) To handle errors

Answer: b) To pass control to the next middleware function

23. Which HTTP method is used to update data in a RESTful API?

- a) GET
- b) POST
- c) PUT
- d) DELETE

Answer: c) PUT

24. What is the role of the `dotenv` module in a Node.js application?

- a) To handle environment variables
- b) To encrypt data
- c) To parse JSON data
- d) To create a server

Answer: a) To handle environment variables

25. How can you handle cross-origin resource sharing (CORS) in an Express.js application?

- a) By using the `cross-origin` middleware
- b) By setting the `Access-Control-Allow-Origin` header
- c) By using the `cors` middleware
- d) By configuring the server to allow all origins

Answer: c) By using the `cors` middleware

26. In Node.js, what is the purpose of the `child_process` module?

- a) To create child threads
- b) To spawn child processes
- c) To manage child modules
- d) To handle child exceptions

Answer: b) To spawn child processes

27. What is the purpose of the `WebSocket` protocol in Node.js?

- a) To handle HTTP requests
- b) To enable real-time communication between a client and server
- c) To serve static files
- d) To secure data transmission

Answer: b) To enable real-time communication between a client and server

28. Which of the following is a templating engine commonly used with Express.js?

- a) Pug
- b) Jade
- c) EJS
- d) Handlebars

Answer: c) EJS

29. How do you set up a basic HTTP server in Node.js without using any external framework?

- a) Using the `http.createServer` method
- b) Using the `express` module
- c) Using the `server` module
- d) Using the `http.server` method

Answer: a) Using the `http.createServer` method

30. What is the purpose of the `cookie-parser` middleware in Express.js?

- a) To parse HTTP cookies
- b) To encrypt cookies
- c) To set response status codes
- d) To handle session data

Answer: a) To parse HTTP cookies

31. What is the purpose of the `mongoose` module in a Node.js application?

- a) To create middleware functions
- b) To connect to a MongoDB database
- c) To handle HTTP requests
- d) To encrypt data

Answer: b) To connect to a MongoDB database

32. Which of the following is true about the event-driven model in Node.js?

- a) It uses multiple threads to handle events
- b) It is synchronous in nature
- c) It is based on the publish-subscribe pattern
- d) It does not support events

Answer: c) It is based on the publish-subscribe pattern

33. What is the purpose of the `npm init` command?

- a) To initialize a new Node.js project
- b) To install Node.js packages
- c) To start a new Node.js server
- d) To create a new npm user

Answer: a) To initialize a new Node.js project

34. How do you handle query parameters in an Express.js route?

- a) Using the `query` object
- b) Using the `params` object
- c) Using the `body` object
- d) Using the `request` object

Answer: d) Using the `request` object

35. What is the purpose of the `helmet` middleware in an Express.js application?

- a) To handle HTTP headers
- b) To encrypt data
- c) To set response status codes
- d) To secure the application by setting various HTTP headers

Answer: d) To secure the application by setting various HTTP headers

36. What is the role of the passport module in an Express.js application?

- a) To handle authentication
- b) To serve static files
- c) To encrypt data
- d) To create middleware functions

Answer: a) To handle authentication

37. Which of the following modules can be used for handling asynchronous operations in Node.js?

- a) async
- b) sync
- c) await
- d) defer

Answer: a) async

38. How do you handle routing in an Express.js application?

- a) Using the route object
- b) Using the express-routing module
- c) Using the app.route method
- d) Using the route method

Answer: c) Using the `app.route` method

39. What is the purpose of the Promise object in Node.js?

- a) To handle HTTP requests
- b) To handle asynchronous operations
- c) To create middleware functions
- d) To serve static files

Answer: b) To handle asynchronous operations

40. Which of the following is a built-in module in Node.js for handling URL-related tasks?

- a) url
- b) path
- c) querystring
- d) request

Answer: a) url

41. How can you terminate a Node.js process?

- a) node.terminate();
- b) process.terminate();
- c) exit();
- d) process.exit();

Answer: d) process.exit();

42. What is the purpose of the app.use method in Express.js?

- a) To define routes

- b) To configure middleware
- c) To handle errors
- d) To set up a database connection

Answer: b) To configure middleware

43. Which module can be used for creating a secure HTTPS server in Node.js?

- a) https
- b) secure
- c) ssl
- d) tls

Answer: a) https

44. What is the role of the `process.env` object in Node.js?

- a) To manage environment variables
- b) To control the Node.js process
- c) To store global variables
- d) To handle file operations

Answer: a) To manage environment variables

45. How do you install a specific version of Node.js using nvm (Node Version Manager)?

- a) `nvm install node@version`
- b) `nvm install version`
- c) `nvm use version`
- d) `nvm install node/version`

Answer: b) `nvm install version`

46. Which module is commonly used for testing in a Node.js application?

- a) jest
- b) mocha
- c) chai
- d) test.js

Answer: b) mocha

47. What is the purpose of the `pm2` module in Node.js?

- a) To manage Node.js processes
- b) To create middleware functions
- c) To handle HTTP requests
- d) To serve static files

Answer: a) To manage Node.js processes

48. What is the purpose of the `multer` middleware in Express.js?

- a) To handle HTTP headers
- b) To parse JSON data
- c) To process multipart/form-data for file uploads
- d) To encrypt data

Answer: c) To process multipart/form-data for file uploads



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