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58 Express.js interview questions

Only coding challenges ☐

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Express.js Fundamentals

1. What is **Express.js**, and how does it relate to **Node.js**?

Question



Answer:

Express.js is a web application framework that runs on **Node.js**. It simplifies the process of building web applications and APIs by providing a range of powerful features, including robust routing, middleware support, and HTTP utility methods. Thanks to its modular design, you can expand its functionality through additional libraries and Node.js modules.

Key Features

- **Middleware:** Express.js makes use of middleware functions that have access to the request-response cycle. This allows for a variety of operations such as logging, authentication, and data parsing.
- **Routing:** The framework offers a flexible and intuitive routing system, making it easy to handle different HTTP request methods on various URLs.
- **Templates:** Integrated support for template engines enables the dynamic rendering of HTML content.
- **HTTP Methods:** It provides built-in methods for all HTTP requests, such as `get`, `post`, `put`, `delete`, simplifying request handling.
- **Error Handling:** Express streamlines error management, and its middleware functions can specifically handle errors.
- **RESTful APIs:** Its features such as request and response object chaining, along with HTTP method support, make it ideal for creating RESTful APIs.

Relationship with Node.js



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of **Node.js** for web development. **Node.js**, on the other hand, is a cross-platform JavaScript runtime environment that allows developers to build server-side and networking applications.

Express.js accomplishes this through a layer of abstractions and a more structured approach, which Node.js, by itself, doesn't provide out of the box.

Code Example: Basic Express Server

Here is the Node.js code:

```
// Import required modules
const express = require('express');

// Create an Express application
const app = express();
const port = 3000;

// Define a route and its callback function
app.get('/', (req, res) => {
```

Click to expand

2. Explain the concept of **middleware** in **Express.js**.
3. How would you set up a basic **Express.js** application?
4. What is the purpose of the `app.use()` function?
5. How do you serve **static files** using **Express.js**?
6. Discuss the difference between `app.get()` and `app.post()` in **Express.js**.
7. How do you retrieve the **URL parameters** from a **GET request** in **Express.js**?
8. What are **route handlers**, and how would you implement them?
9. How do you enable **CORS** in an **Express.js** application?
10. Explain the use of `next()` in **Express.js middleware**.

Question



Question



Question



Question



Question



Question



Question



Question



Question



Routing and Requests

11. What is the role of the `express.Router` class?
12. How do you handle **404 errors** in **Express.js**?
13. What are the differences between `req.query` and `req.params` ?

Question



Question



Question



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15. How do you create a **middleware** that logs the **request method** and **URL** for every request?
16. Explain how you would implement **nested routes** in **Express.js**.
17. How can you **capture** and **respond** to **URL parameters** in a route?
18. How do you serve different **content types** (e.g., JSON, HTML) with **Express.js responses**?
19. What are best practices for structuring a large **Express.js** application with multiple routes?

Question



Question



Question



Question



Question



Middleware and Error Handling

20. Explain the concept and use of **built-in middleware** in **Express.js**.
21. How do you write **custom middleware functions** in **Express.js**?
22. How do you handle **file uploads** in **Express.js**?
23. What is `express-session`, and how would you use it?
24. Discuss **error handling** in an **Express.js** application. How do you define an **error-handling middleware**?
25. Provide an example of using **third-party middleware**, such as `body-parser` or `morgan`.
26. How do you protect against **SQL injection** or other **security threats** in **Express.js**?



Question



Question



Question



Question



Question



Question



Question



Response and Performance

27. How would you implement **caching** in an **Express.js** application?
28. How do you **set cookies** and **get cookies** in an **Express.js** application?
29. What are ways to **improve the performance** of **Express.js** applications?
30. How do you **configure** an **Express.js** app for a **reverse proxy**, like **Nginx**?
31. Explain the purpose of **template engines**. How would you integrate one with **Express.js**?



Question



Question



Question



Question



Question



Testing and Debugging

32. How do you test an **Express.js** application?
33. Discuss common **debugging techniques** for **Express.js** applications.



Question



Question



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35. How do you use a **debugger** with an **Express.js** app running in **Node.js**?

Question



Express.js with Databases

36. How would you connect a **MongoDB** database with an **Express.js** application?

Question

37. Explain how to integrate an **ORM** like **Sequelize** with **Express.js**.

Question

38. How do you handle **database errors** in **Express.js**?

Question

39. What are the advantages of using a **database pooling mechanism** in an **Express.js** app?

Question



Authentication and Authorization

40. Describe how you would implement **user authentication** in **Express.js**.

Question

41. Explain how **sessions** are managed in **Express.js**.

Question

42. Discuss how you would handle **user roles and permissions** in an **Express.js** application.

Question

43. How can you secure **passwords** and **sensitive information** in your **Express.js** app?

Question



Integration and Configuration

44. How do you integrate a **third-party API** in an **Express.js** application?

Question

45. Explain the steps to **deploy** an **Express.js** application to a cloud provider like **AWS** or **Heroku**.

Question

46. How can you ensure that your **Express.js** application is scalable_?

Question

47. What is the **Twelve-Factor App methodology**, and how does it apply to **Express.js**?

Question



Coding Challenges

48. Write an **Express.js** **middleware** function that limits requests to 100 per hour per **IP address**.

Coding Challenge

49. Create an **Express.js** **route** that accepts a **JSON payload** and responds with the same payload in reverse order.

Coding Challenge

50. Develop a simple **REST API** with **Express.js** that includes **CRUD operations** for managing books. Include **route definitions** and **handler functions** that interact with a placeholder data store.

Coding Challenge



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51. Discuss strategies for building a **real-time application** with **Express.js**.

Question

52. What are some common **optimization techniques** for **Express.js** applications?

Question

53. Explain the concept and benefits of **server-side rendering** with **Express.js** and a **templating engine**.

Question

54. How do you ensure that your **Express.js code is maintainable** and follows **best practices**?

Question



Case Studies and Scenario-Based Questions

55. How would you structure an **Express.js application** for a large-scale **e-commerce platform**?

Question

56. Describe the key considerations for building a **secure API** with **Express.js**.

Question

57. Discuss how to handle **session management** in a distributed **Express.js application**.

Question

58. What are the implications of **microservices architecture** for an **Express.js application**?

Question



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