62 ExpressJS Interview Questions to Assess Developers

Questions

1. What is ExpressJS and why is it used in web development?

2. Can you explain the middleware concept in ExpressJS?

3. How do you handle errors in an ExpressJS application?

4. What are routes in ExpressJS and how do you define them?

5. How can you serve static files in an ExpressJS app?

6. What is the purpose of the 'next' function in ExpressJS?

7. How do you handle form data in ExpressJS?

8. Can you explain the difference between req.params, req.query, and req.body?

9. How do you implement authentication in an Express application?

10. What are some common security practices you would implement in an ExpressJS application?

11. How can you set up logging in an ExpressJS app?

12. What is the role of the Express Router?

13. How do you deploy an ExpressJS application?

14. Can you explain the concept of template engines in ExpressJS?

15. How would you optimize the performance of an ExpressJS application?

16. What is the role of app.use in an ExpressJS application?

17. How do you set up a basic ExpressJS server?

18. What are some ways to handle different HTTP methods in ExpressJS?

19. How would you manage different environments in an ExpressJS application?

20. What is the purpose of the 'next' function in middleware, and how do you use it?

21. How can you structure an ExpressJS application for maintainability?

22. What are some common security practices you would implement in an ExpressJS application?

23. How do you handle form data in ExpressJS?

24. How can you implement session management in ExpressJS?

25. What is the purpose of the 'app.listen' method in ExpressJS?

26. Can you explain how to use environment variables in an Express application?

27. What are the differences between ExpressJS and other Node.js frameworks like Koa or Hapi?

28. How do you connect an Express application to a database, such as MongoDB?

29. What are some strategies for handling CORS in an ExpressJS application?

30. How can you use template engines like Pug or EJS with ExpressJS?

31. What is the purpose of the 'body-parser' middleware in ExpressJS?

32. How do you integrate third-party libraries into an Express application?

33. Can you explain the process of setting up unit tests for an ExpressJS application?

34. Can you describe what middleware is in the context of ExpressJS?

35. How do you create custom middleware in ExpressJS?

36. What are some common types of middleware used in ExpressJS applications?

37. How does middleware order affect an ExpressJS application?

38. Can you explain the difference between application-level and router-level middleware in ExpressJS?

39. How can you handle errors with middleware in ExpressJS?

40. Why is middleware important for handling asynchronous operations in ExpressJS?

41. Can you explain how to create nested routes in ExpressJS?

42. How would you implement route parameters in ExpressJS?

43. What is the importance of route order in ExpressJS?

44. How can you handle 404 errors for undefined routes in ExpressJS?

45. How do you set up route grouping in ExpressJS?

46. Can you explain the use of route-specific middleware in ExpressJS?

47. How would you handle dynamic routes in ExpressJS?

48. What are named routes and how can you use them in ExpressJS?

49. How do you manage route constraints in ExpressJS?

50. Can you describe how to set up a basic CRUD API with ExpressJS routes?

51. How do you validate route parameters in ExpressJS?

52. What strategies would you use to secure routes in an ExpressJS application?

53. How would you approach scaling an ExpressJS application that is experiencing high traffic?

54. Can you describe a time when you had to troubleshoot a performance issue in an ExpressJS app? What steps did you take?

55. Imagine you need to implement an API for a mobile application using ExpressJS. What considerations would you keep in mind?

56. How would you implement role-based access control in an ExpressJS application?

57. If you had to integrate WebSocket functionality into an existing ExpressJS application, how would you do it?

58. Can you explain how you would manage asynchronous operations in your ExpressJS routes?

59. How would you handle rate limiting in an ExpressJS application to protect against abuse?

60. If your ExpressJS app needs to interact with a third-party API, how would you structure that integration?