

Clarusway



Backend Workshop -7-

Workshop

Subject:

- NodeJS Interview Question

Learning Goals

- Preparing for NodeJS Interview Questions

Introduction

- Preparing for interview questions that may arise during job application processes

Prerequisites

- Answer by discussing among yourselves.

Lets start

1. Explain Middleware in Express.js.

Answer:

2. What is routing in Express.js, and how is it implemented?

Answer:

3. How does error handling work in Express.js?

Answer:

4. What is the purpose of the Express.js app.use() method?

Answer:

5. Explain the role of the Express.js response object.

Answer:

6. What is Sequelize, and what is its primary purpose?

Answer:

7. What is pagination, and how can you implement it in a database query with Sequelize or Mongoose?

Answer:

8. How do you use the where clause in Sequelize to create search queries?

Answer:

9.Explain JSON Web Tokens (JWT) and their role in web applications.

Answer:

10.What are some common security considerations when using JWT for authentication?

Answer:

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Teamwork
-6-

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1.Which HTTP methods can be handled by Express.js routes?

- a) GET
- b) POST
- c) PUT
- d) All of the above

2.How do you set up a basic route in Express.js for handling a GET request?

- a) `app.get('/', callbackFunction)`
- b) `app.use('/', callbackFunction)`
- c) `app.route('/', callbackFunction)`
- d) `app.post('/', callbackFunction)`

3.How does Express.js handle error middleware?

- a) By calling the `next()` function
- b) Automatically without any configuration
- c) By using a separate error-handling route
- d) It doesn't handle errors.

4.How can you parse JSON data from the request body in Express.js?

- a) Using `req.body`
- b) Using `req.json`

- c) Using req.parseJSON()
- d) Using req.data

5.What is the purpose of the app.set('view engine', 'ejs') configuration in Express.js?

- a) To start the server
- b) To set up a view engine
- c) To configure the router
- d) To define route paths

6.What is Express.js's res.redirect() method used for?

- a) Rendering HTML templates
- b) Sending JSON responses
- c) Redirecting to a different URL
- d) Handling errors

7.What is the purpose of Express.js's app.locals object?

- a) To store session data
- b) To define global variables for templates
- c) To handle route middleware
- d) To configure the server's security settings

8.Which tool is commonly used with Express.js for secure authentication and authorization?

- a) Passport.js
- b) Express-Authenticator
- c) SecureAuth.js
- d) AuthGuard

9.What is Express.js's static middleware used for?

- a) Parsing JSON data

- b) Handling errors
- c) Serving static files like CSS and JavaScript
- d) Authenticating users

10. What is the primary purpose of implementing pagination in a web application?

- a) To improve search engine optimization (SEO)
- b) To enhance user interface design
- c) To organize content into manageable pages
- d) To implement secure authentication

11. Which Sequelize method is used to create a new database record if it doesn't exist or update it if it does exist?

- a) findOrCreate()
- b) updateOrCreate()
- c) createOrUpdate()
- d) insertOrUpdate()

12. How does skip-based pagination work?

- a) It loads all data at once for better performance.
- b) It retrieves a specific page of data by skipping a defined number of records.
- c) It paginates by dividing data into fixed-size blocks.
- d) It retrieves data randomly without any order.

13. JWT Question: What is the purpose of the "payload" in a JSON Web Token (JWT)?

- a) To store metadata about the token
- b) To define the expiration time of the token
- c) To carry information about the user or claims
- d) To encrypt the token

14. In an Express.js application, you want to implement an efficient and scalable mechanism for handling authentication and authorization. Describe the process and components you would use to

achieve this, considering factors like security, performance, and flexibility.

- a) Implement a single, complex middleware that handles both authentication and authorization in one pass.
- b) Utilize Express.js sessions and store session data in a server-side database, checking user credentials and permissions for each request.
- c) Implement JWT-based authentication, store user roles and permissions in the tokens, and verify them for each protected route.
- d) Use Basic Authentication and store user credentials directly in the application code for efficiency.

15-You are building a high-traffic Express.js application, and you want to optimize its performance. Which middleware should you consider using to improve request processing speed and minimize response times?

- a) express-compression
- b) express-sessions
- c) express-validator
- d) express-static-gzip

😊 Thanks for Attending 🙌

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