Software Development

Level-Up Your Experience For Free!

Course Recommendations   Salary Guides   Personalized Newsletters   Surprise Rewards

All You Need To Know About JWT In Express JS

By Anubhav Sharma

Last updated on Oct 11, 2022

30653

Table of Contents

Level-Up Your Experience For Free!

Course Recommendations   Salary Guides   Personalized Newsletters   Surprise Rewards

JWT is a JSON Web Token that is used to transfer data to someone over the internet with encryption. This helps to maintain the secrecy between the two parties.

What Is JSON Web Token?

- JSON Web Token (JWT) is an open standard that provides a compressed and independent method for secure data transfer among parties as a JSON object

method for secure data transfer among parties as a JSON object.

Tutorial Playlist

Data Request + Signed JWT

Client

Response

Server

JSON Web Token Structure

JWTs contain three sections that are separated by dots (.), which are as follows:

- Header: The header typically consists of two parts, and JWT is the type of token that uses a signing algorithm, such as HMAC SHA256 or RSA.

Level-Up Your Experience For Free!

Course Recommendations   Salary Guides   Personalized Newsletters   Surprise Rewards

- Signature: A signature is a cryptographic algorithm used to verify the integrity of the JSON payload. To create a signature, you must sign the encoded header, encoded Payload, secret, and algorithm indicated in the header and mark that.

JWT Use Cases

- Authorization - This is the most common structure for using JWT. When registered, the user can access routes, services, and resources authorized with that token by including the JWT in subsequent requests.

- Information Exchange - With the help of JSON Web Tokens, you can securely transmit information between parties.

Demonstration

You will create an express js project in which you will add JWT. The steps are as follows:

- Step 1: Create an Express JWT folder and open that folder in the editor vscode

- Step 2: Open the terminal and write the command "npm init -y" this will create a JSON file

- Step 3: Now you are installing Express js, for that write a command "npm install express"

- Step 4: Here, you are installing JWT in this Express folder. For that. write a command "npm install jsonwebtoken"

- Step 5: Create a file index.js in which you are going to write all the code

- Step 6: Now, you must go ahead and import Express js and JWT modules into your application

- Step 7: Here, you are using app.get() method to create a JSON string with the message

- Step 8: Now, you are going to include the app.post(), and in that method, you are adding verifyToken, and request and response values.

The verify() method will take the request token as input and verifies whether it is correct. Here,

you have used verify() method to print an error message, and if it works, you will print a message on the screen that the post method created.

- Step 9: Now, you must create another Post Method for the specified URL to route the user login

JWT then generates a JSON Web Token for the user using the sign() method and returns the token as a JSON string.

- Step 10: After that, you must define the verifyToken() that will help you with the token verification process.

Here we have used the bearerHeader variable that contains the token passed in the request header's authorization field. Also, we are adding an if condition that checks whether the token exists in the authorization field. If not, we are sending an error status to the user.

- Step 11: Finally, you must create a Server to listen to port 3000.

- Step 12: Now, go ahead and run this file and write "node ."

If you're eager to gain the skills required to work in a challenging, rewarding, and dynamic IT role - we've got your back! Discover the endless opportunities through this innovative Post Graduate Program in Full Stack Web Development course designed by our partners at Caltech CTME. Enroll today!

Next Steps

Hope this JWT express tutorial has provided you with a foundational grasp of Express JS.

Course certification will benefit you if you wish to learn these programming languages and work as a developer or programmer. Enroll in the Full Stack Web Developer - MEAN Stack Master's program to learn Typescript

program to learn Typescript.

If you have any specific queries for us, please let us know. Please share any recommendations or questions about using JWT Express in the comments section below, and our experts will answer them.

Find our Caltech Coding Bootcamp Online Bootcamp in top cities:

Name	Date	Place
Caltech Coding Bootcamp	Cohort starts on 4th Apr 2023, Weekend batch	Your City

About the Author

Anubhav Sharma

Anubhav is a Research Analyst. He enjoys working on dynamic projects where he can learn new things. He is responsible and diligent. Being a resident of Jammu, he loves nature and explorin…

View More

Recommended Programs

Caltech Coding Bootcamp

629 Learners

Lifetime Access*

Post Graduate Program in Full Stack Web

Post Graduate Program In Full Stack Web
Development

Lifetime
Access*

4750 Learners

*Lifetime access to high-quality, self-paced e-learning content.

Explore Category

Recommended Resources

What Is Express
JS?

The Ultimate
Guide to Creating
Chatbots

0 Comments

G

Start the discussion…

LOG IN WITH

OR SIGN UP WITH DISQUS ?

Name

♡   **Share**

Best   Newest   Oldest

Be the first to comment.