

Node JWT Middleware

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Task



- Create a Create API store following information of the Card
- Cart type (Debit/Credit)
- Card Bank
- Card Holder Name
- Card Number
- Card Expiry
- Card CVC

Learning Objective



- Student should be able to write and implement the middleware's in express
- Students should be able to protect the APIs using JWT base token

Create Signup API

 Create an API to store username and password in the database using API



Install Package

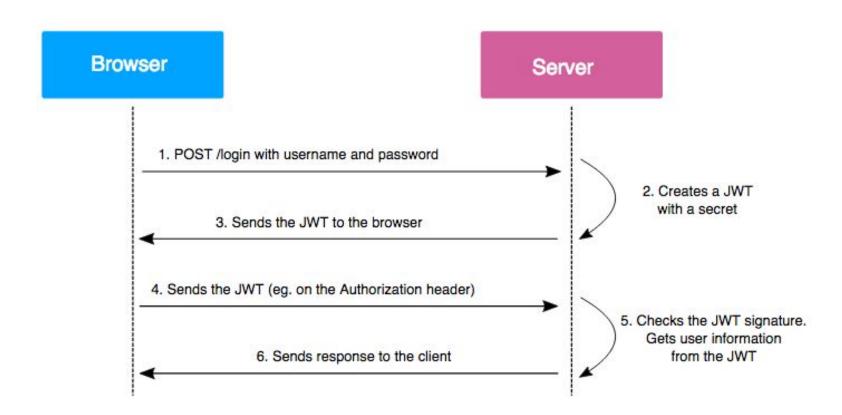
npm install jsonwebtoken

Create Signup API

```
async function login(req, res, next) => {
  const { email, password } = req.body;
  try {
    const user = await User.findOne({ email });
    if (!user) return res.status(404).json({ error: 'User not found' });
    return res.status(200).json({
     message: 'Logged in successfully',
      email: email,
     fullname: user.fullname,
      userid: user.id,
    });
  } catch (err) {
    return res.status(500).json({ message: err });
};
```



How JWT Works



Now let's get the token on the login

```
function GenerateToken(user) => {
  const payload = {
    role: user.role,
    id: user._id,
    };
  const token = jwt.sign(payload, process.env.ACCESS_TOKEN_SECRET);
  return token;
};
```

Send back the token to the Login Response

```
async function login (req, res, next) {
  const { email, password } = req.body;
 try {
    const user = await User.findOne({ email });
    if (!user) return res.status(404).json({ error: 'User not found' });
    if (!isMatch) return res.status(401).json({ error: 'Invalid credentials' });
    var token = generteLoginToken(user);
    return res.status(200).json({
     message: 'Logged in successfully',
      email: email,
     fullname: user.fullname,
      userid: user.id,
     token: token,
   });
 } catch (err) {
      return res.status(500).json({ message: err });
};
```

Make middleware to verify the token

• Create a middleware file in the Utils folder

Middleware Function

```
asyc function SecureAPI(req, res, next) => {
  const token = req.body.token;
  if (!token) {
   return res
      .status(401)
      .json({ message: 'Access denied. Please login to access these pages' });
  const secritkey = process.env.ACCESS_TOKEN_SECRET;
 try {
   const decoded = jwt.verify(token, secritkey);
   req.body.role = decoded.role;
   req.body.userid = decoded.id;
   next();
  } catch (ex) {
   return res.status(400).json({ message: 'Invalid token.' });
};
module.exports = { SecureAPI };
```

Include that middleware in Routes

```
const { SecureAPI } = require('.../utils/authorization_middleware');
```

Call middleware function as 2nd argument in your routes calling function like

```
myRouter.post('/admin', SecureAPI, controller.admindasbhard);
```