Welcome to the CoGrammar

Lecture: MERN and JWT

The session will start shortly...

Questions? Drop them in the chat. We'll have dedicated moderators answering questions.

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Full Stack Web Development Session Housekeeping

- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly. **(Fundamental British Values: Mutual Respect and Tolerance)**
- No question is daft or silly - **ask them!**
- There are **Q&A sessions** midway and at the end of the session, should you wish to ask any follow-up questions. Moderators are going to be answering questions as the session progresses as well.
- If you have any questions outside of this lecture, or that are not answered during this lecture, please do submit these for upcoming Academic Sessions. You can submit these questions here: **Questions**

Full Stack Web Development Session Housekeeping cont.

- For all **non-academic questions**, please submit a query: www.hyperiondev.com/support
- Report a **safeguarding** incident: www.hyperiondev.com/safeguardreporting
- We would love your **feedback** on lectures: Feedback on Lectures

Skills Bootcamp
8-Week Progression Overview

Fulfil 4 Criteria to Graduation

✅ Criterion 1: Initial Requirements

Timeframe: First 2 Weeks
Guided Learning Hours (GLH): Minimum of 15 hours
Task Completion: First four tasks

Due Date: 24 March 2024

✅ Criterion 2: Mid-Course Progress

60 Guided Learning Hours

Data Science - **13 tasks**
Software Engineering - **13 tasks**
Web Development - **13 tasks**

Due Date: 28 April 2024

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Skills Bootcamp Progression Overview

✅ Criterion 3: Course Progress

Completion: All mandatory tasks, including Build Your Brand and resubmissions by study period end
Interview Invitation: Within 4 weeks post-course
Guided Learning Hours: Minimum of 112 hours by support end date (10.5 hours average, each week)

✅ Criterion 4: Demonstrating Employability

Final Job or Apprenticeship Outcome: Document within 12 weeks post-graduation
Relevance: Progression to employment or related opportunity

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Lesson Objectives

❖ Controlling user permissions with JWT.

❖ Creating full stack web applications that incorporates a login page that makes use of JWT authentication.

User Permissions

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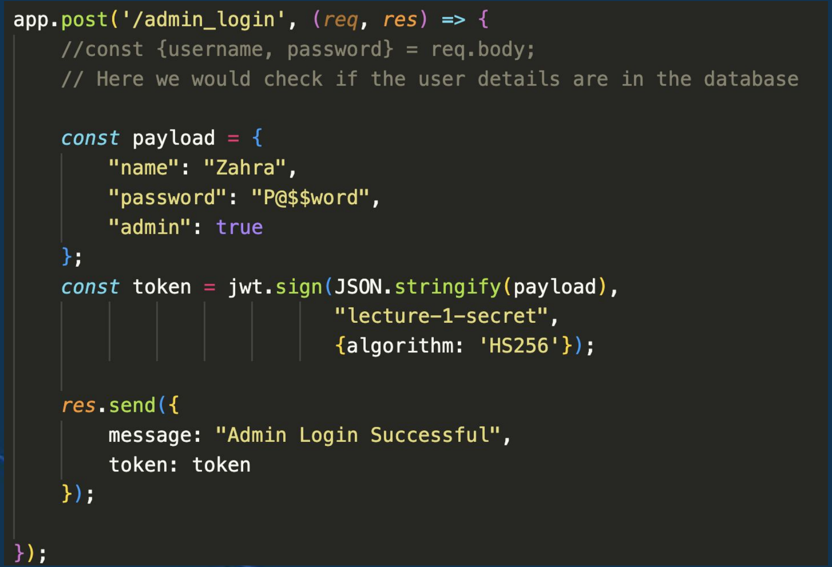
User Permissions

- By adding an **admin** attribute to the **payload of the auth endpoint**, we can implement user permissions i.e. features or resources only accessible to users with certain privileges.
- The admin attribute can **only** be added at the endpoint,

User Permissions

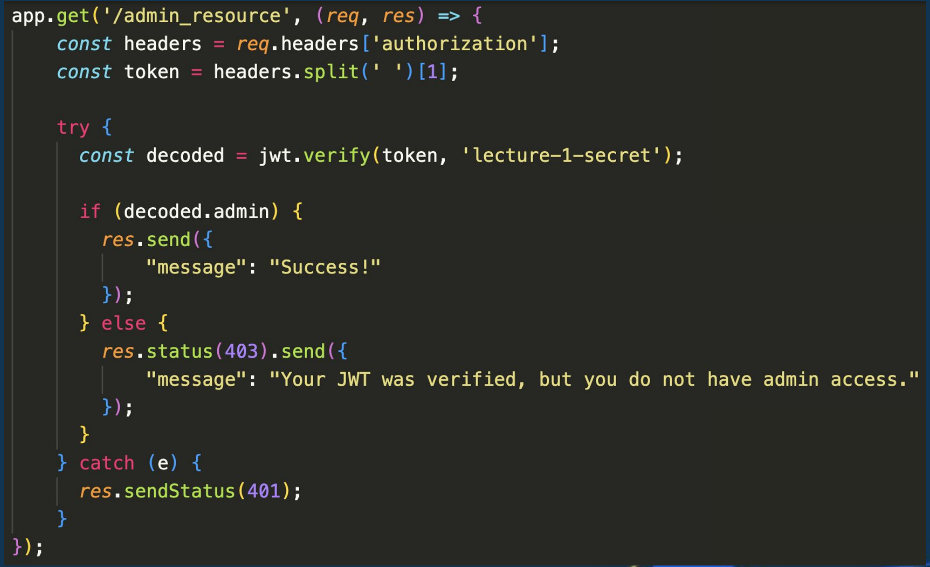


```
app.post('/admin_login', (req, res) => {
    //const {username, password} = req.body;
    // Here we would check if the user details are in the database

    const payload = {
        "name": "Zahra",
        "password": "P@$$word",
        "admin": true
    };
    const token = jwt.sign(JSON.stringify(payload),
                           "lecture-1-secret",
                           {algorithm: 'HS256'});

    res.send({
        message: "Admin Login Successful",
        token: token
    });

});
```



```
app.get('/admin_resource', (req, res) => {
    const headers = req.headers['authorization'];
    const token = headers.split(' ')[1];

    try {
      const decoded = jwt.verify(token, 'lecture-1-secret');

      if (decoded.admin) {
        res.send({
            "message": "Success!"
        });
      } else {
        res.status(403).send({
            "message": "Your JWT was verified, but you do not have admin access."
        });
      }
    } catch (e) {
      res.sendStatus(401);
    }
});
```

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Let’s Breathe!

Let’s take a small break before moving on to the next topic.

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Full Stack App with JWT

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Questions and Answers

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Thank you for attending

SKILLS FOR LIFE
SKILLS BOOTCAMPS

Department for Education

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