




# Welcome to the CoGrammar Integrating React Frontend with Express Backend

The session will start shortly...

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



# Full Stack Web Development Session Housekeeping

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- 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.
- 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.

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- For all **non-academic questions**, please submit a query:  
[www.hyperiondev.com/support](http://www.hyperiondev.com/support)
- Report a **safeguarding** incident:  
[www.hyperiondev.com/safeguardreporting](http://www.hyperiondev.com/safeguardreporting)
- We would love your **feedback** on lectures: [Feedback on Lectures](#)
- You can turn on live captions from your browser's settings.

# Safeguarding & Welfare

We are committed to all our students and staff feeling safe and happy; we want to make sure there is always someone you can turn to if you are worried about anything.

If you are feeling upset or unsafe, are worried about a friend, student or family member, or you feel like something isn't right, speak to our safeguarding team:



Ian Wyles  
Designated Safeguarding  
Lead



Simone Botes



Nurhaan Snyman



Rafiq Manan



Ronald Munodawafa



Tevin Pitts

Scan to report a  
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Safeguarding Lead:  
Ian Wyles

[safeguarding@hyperiondev.com](mailto:safeguarding@hyperiondev.com)

# Polls

Please have a look at the poll notification and select an option.

**What is the primary role of Express.js in the MERN stack?**

- A) To manage the database.
- B) To handle server-side logic and API endpoints.
- C) To style the frontend.
- D) To build the React components.

# Polls

Please have a look at the poll notification and select an option.

**Why is CORS middleware necessary when connecting a React frontend to an Express backend?**

- A) To improve database performance.
- B) To allow cross-origin requests between frontend and backend.
- C) To style the React components.
- D) To deploy the application.



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## Book Management System

January 2025

# Lesson Overview

Build a Book Management System using the MERN Stack (**MongoDB, Express.js, React.js, Node.js**). The system allows users to perform CRUD operations (**Create, Read, Update, Delete**) on a collection of books. The backend is built with **Express.js** and **MongoDB**, while the frontend is developed using React.js. This project demonstrates seamless integration of a React frontend with an Express backend.



# Key Features

## ❖ Backend (Express.js + MongoDB):

- RESTful API for CRUD operations on books.
- MongoDB database to store book details (title, author, genre, year).
- Middleware for error handling, validation, and CORS.

## ❖ Frontend (React.js):

- User-friendly interface to interact with the backend API.
- Pages: Home (list books), Add Book, Edit Book, Book Details.
- API integration using fetch or axios.

# Key Features

## ❖ Integration:

- Connect React frontend with Express backend using RESTful APIs.
- Use CORS and proxy setup for seamless communication

# Questions and Answers



# Thank you for attending



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