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.

CoGrammar

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 safeguarding concern

or email the Designated Safeguarding Lead:
Ian Wyles
safeguarding@hyperiondev.com

CoGrammar   HyperionDev

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**

CoGrammar

Full Stack Web Development Session Housekeeping

- 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

- If you are hearing impaired, please kindly use your computer's function through Google chrome to enable captions.

CoGrammar

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.

CoGrammar

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.

CoGrammar

Lesson Overview

Build a StudentManagement System using the MERN Stack (**FileSystem, Express.js, React.js, Node.js**). The system allows users to perform CRUD operations (**Create, Read, Update, Delete**) on a collection of students.

The backend is built with **Express.js** and **FileSystem**, while the frontend is developed using React.js. This project demonstrates seamless integration of a React frontend with an Express backend.

CoGrammar

Key Features

❖ **Backend (Express.js + FileSystem):**
  ➢ RESTful API for CRUD operations on students.
  ➢ FileSystem "database" (students.json) to store student details (id, name, age, grade).
  ➢ Middleware for error handling, validation, and CORS.

❖ **Frontend (React.js):**
  ➢ User-friendly interface to interact with the backend API.
  ➢ Pages: Home (list Students), Add Student, Edit Student.
  ➢ API integration using fetch or axios.

CoGrammar

Key Features

❖ **Integration:**
  ➢ Connect React frontend with Express backend using RESTful APIs.
  ➢ Use CORS and proxy setup for seamless communication

CoGrammar

Let's take a break

CoGrammar

Questions and Answers

Thank you
for attending

CoGrammar