Welcome to the

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Task Walkthrough: Task 22 - Databases and the MongoDB Database

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**

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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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Learning Objectives

- ❖ Understand database fundamentals
- ❖ Creating and managing a database cluster
- ❖ Connecting to a database

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What is MongoDB?

- MongoDB is a powerful NoSQL database that is widely used for its flexibility, scalability, and performance.

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What is a Database?

- A database is a system that stores and manages data efficiently. It allows for data retrieval, insertion, updates, and deletion.

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Types of Databases

- Relational Databases (SQL)
  - Use tables and rows and support complex queries and transactions.
- NoSQL Databases
  - Focus on high scalability and flexibility, with types including key-value, document, wide-column, and graph databases.

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Why MongoDB?

➢ MongoDB is a document store that allows for flexible schema design and is excellent for handling large volumes of data with varied structures.

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Example Task

Questions and answers

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Thank you for attending

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