Fetching Data

Michael Borck

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Today

- Emphasise the importance of understanding APIs and data fetching in Python
- Highlight the skills that will be learned in this session, such as:

  - Fetching data using the OpenWeatherMap API
  - Parsing JSON data
  - Handling errors

Live Coding - Fetching Data

- Demonstrate how to use the `requests` library to fetch data from the OpenWeatherMap API
- Introduce the concept of HTTP requests and responses
- Show how to handle errors and exceptions in Python

Parsing JSON Data

- Introduce the concept of JSON data and how it is used to represent data
- Demonstrate how to use the `json` library to parse JSON data in Python
- Highlight the importance of data parsing and how it is used in the weather dashboard project

Error Handling

- Introduce the concept of error handling in Python and its importance
- Demonstrate how to use try-except blocks to handle errors in Python
- Highlight the importance of error handling in the weather dashboard project

Breakout Room Activity

- Emphasise the importance of teamwork and collaboration in the project
- Encourage students to work together to fetch and parse data for different cities

Demo and Discussion

- Demonstrate how to use the fetched data to create a basic weather dashboard
- Encourage students to share their findings and discuss challenges

Q&A and Wrap-Up

- Address any questions and provide additional tips
- Emphasize the importance of practicing and experimenting with the concepts learned in the session

Homework*

- Assign homework that reinforces the concepts learned in the session
- Encourage students to experiment with different APIs and data fetching techniques