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Welcome to this session:
Task Walkthrough - OOP, DOM, Fetch

The session will start shortly...

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

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

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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. 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**

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- 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.

Lecture Overview

➜ Object Oriented
   Programming
➜ Fetch API
➜ DOM

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Task 1

Develop a shopping list application that integrates data from the Fake Store API and displays it dynamically on a webpage. Additionally, use the Picsum API to display an image of the day.

Step 1: Set Up HTML

1. Create a file named index.html.
2. Design the HTML structure to include:
    - An image element to display the "Image of the Day."
    - A text input and button for adding new shopping items.
    - A list to display shopping items.
    - A div with the id="root" for dynamic content.
3. Link a script file named script.js at the bottom of the HTML.

Task 1

Step 2: Create JavaScript File

1. Create a file named script.js.
2. In script.js, create a variable named root that selects the div element with the id="root".

Task 1

Step 3: Define the Shopping Item Class

1. Create a ShoppingItem class with the following attributes:
    ○   name
    ○   price
    ○   inCart (default value: false)

Task 1

Step 4: Fetch Shopping Items

1. Write a function getShoppingListItems() that:
   - Fetches products from the Fake Store API.
   - Creates instances of the ShoppingItem class for each product.
   - Returns a list of these shopping items.

Task 1

Step 5: Display Shopping Items

1. Write a function createListItems() that:
   - Dynamically generates list items using the DOM for each shopping item.
   - Each list item should display the product's name and include a button.
   - When the button is clicked:
     - The product's inCart attribute is set to true.
     - The product name's styling is updated to appear crossed out.

Task 1

Step 6: Add Custom Products

1. Write a function addProduct() that:
    ○   Prompts the user to input a product's name and price.
    ○   Creates a new ShoppingItem instance with these values.
    ○   Adds the instance to the shopping list.

Task 1

Step 7: Fetch and Display Image of the Day

1. Write a function getImageOfTheDay() that:
    ○   Fetches an image URL from the Picsum API.
    ○   Updates the src attribute of an image element in the HTML using the DOM.

Task 1

Step 8: Integrate All Functions

1. Write a main() function to:
    -   Fetch and display the shopping items.
    -   Set up the "Image of the Day."
    -   Enable the functionality to add custom products.
    -   Ensure all components work together in a logical flow.

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Q & A SECTION

Please use this time to ask any questions relating to the topic, should you have any.

Thank you
for attending

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