Promises, Async/Await

For Week 8, we will explore Promises and async/await, focusing on their role in asynchronous programming. By the end of the week, fellows will be able to write clean, efficient asynchronous code using both promises and async/await, understand the benefits and trade-offs of each approach, and confidently debug any asynchronous issues they may encounter.

Software Development Week 8

Learning Objectives for the week

At the end of this week you should be able to;

- ★ Explain the concept of promises in JavaScript and their role in asynchronous programming.
- ★ Implement promises in JavaScript code to handle asynchronous operations effectively.
- ★ Apply the async/await syntax to simplify asynchronous code and improve readability.
- ★ Compare and contrast promises and async/await, identifying their strengths and weaknesses in different situations.
- ★ Debug issues in asynchronous code using promises and async/await, identifying and resolving errors.

Software Development Week 8

Online Learning Modules

This is the online module that you have to complete this week.

- Promises, Async/Await Full Course: Click Here 1
- Snippet on Async/ Await, : Click Here 2

Additional Resource links
1. Click here - Text
2. Article - Text
3. Download - Ebook

Software Development Week 8

Weekly Applied Learning Assignment

Create a JavaScript project that fetches data from an API and displays it on a web page.

1. **Instructions:**
    - Use **promises** to fetch the data and handle any potential errors.
    - Refactor the code using **async/await** to simplify the asynchronous flow.
    - Compare both approaches in your comments, explaining which one you find more readable and efficient.
    - Submit your code, along with a brief reflection on how you debugged any asynchronous issues.

Submission:

- Submit your code and summary via CodePen.