**Assignments: JavaScript OOP & Array Methods**

These assignments will reinforce your understanding of **classes, objects, loops, and higher-order functions**.

**📝 Assignment 1: Library Management System**

**Objective:**

Create a **Book** class and a **Library** class that manages a collection of books.

**Instructions:**

1. **Create a Book class** with:
   * title
   * author
   * yearPublished
   * isAvailable (default: true)
2. **Create a Library class** that:
   * Stores an array of Book objects.
   * Uses .push() to add books.
   * Uses .filter() to find available books.
   * Uses .map() to return all book titles.
   * Uses a **traditional for loop** to display all books.
3. **Methods to Implement:**
   * addBook(book): Add a book to the library.
   * borrowBook(title): If the book is available, mark it as borrowed (isAvailable = false). Bonus
   * returnBook(title): Mark the book as available again.Bonus
   * getAvailableBooks(): Return only available books.
   * listAllBooks(): Display all books.
   * Add a removeBook(title) method.