Topic : CRUD - PUT Operation

Assignment: Simple Book Management System

Scenario:

You are tasked with building a basic Book Management System where users can view a list of books, add new books, and update existing book details.

This assignment focuses on using the PUT method to update book details.

Requirements:

- ➢ Project Setup:
- Create a new React project with TypeScript and name it BookManagement.
- Create a folder named components inside the src folder to store your components.
- ➢ Component Structure:
- o BookList Component:
- This component should receive a list of books as props and render them in a table.
- Each row in the table should display the book title, author, and a button labeled "Edit" to update book details.
- o BookForm Component:
- This component should be used for both adding new books and editing existing books.
- It should include the following inputs:
    - ✓ Title (text input)
    - ✓ Author (text input)
- Display the appropriate button based on the context (e.g., "Add Book" for adding new books and "Update Book" for editing).

➢ App Component:
- This component should manage the state for the list of books and the selected book for editing.
- It should include the BookList and BookForm components.
- Handle the addition and updating of books within the App component.

Tasks:

1. View Books:
- Display a list of books in a table format using the BookList component.
2. Add a New Book:
- Provide a form (in the BookForm component) that allows users to add a new book by entering the title and author.
- Once the form is submitted, add the new book to the list and render it in the BookList component.
3. Edit an Existing Book (PUT Operation):
- When a user clicks the "Edit" button next to a book in the BookList, populate the BookForm with the existing book details.
- Allow the user to modify the book's title and author and submit the form.
- Upon submission, update the book's details in the list (using a PUT method-like behavior where you update the existing entry).
➢ Expected Outcome:
o A simple Book Management System where users can:
- View a list of books.
- Add new books to the list.
- Update existing book details.