### 1. Project Overview

A simple system to view, add, and delete books using MockAPI as a simulated database.

#### 2. Client Needs & Entities

- Client needs a system to track books (view, add, delete, search).
- Main entity:
  - Book (id, title, author)

#### **Entities:**

Book: Represents each book in the library.

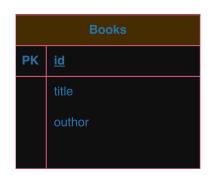
## **Primary Key (PK):**

• id uniquely identifies each book.

#### Attributes:

title: Name of the book.

author: Name of the book's author.



Data is normalized to 3NF.

### 4. Database Design

- Using MockAPI to simulate the database.
- Books stored as JSON objects.

### 5. SQL Equivalent

- SELECT \* FROM books
- INSERT INTO books (title, author) VALUES (...)
- DELETE FROM books WHERE id = ...

#### 6. Data Input

More than 50 books were added via MockAPI.

## 7. Queries & Features

- Display all books
- Search by title
- Sort books

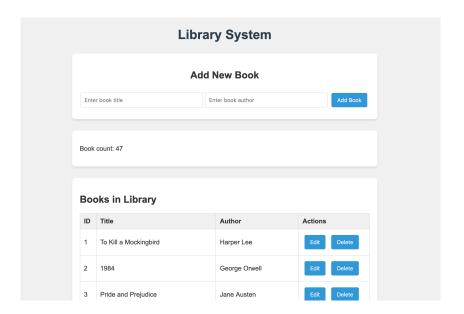
Add and delete books

### 8. Web Interface

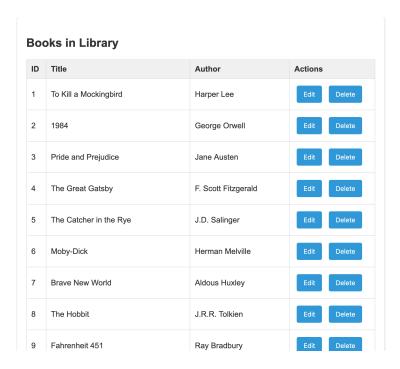
- HTML, CSS, JavaScript
- Fetch API used for data interaction
- Real-time updates without page reload

#### 9. Screenshots

Main page layout



· Books list view



• After adding or deleting a book

| Add New Book |                       |                       |             |
|--------------|-----------------------|-----------------------|-------------|
|              | يوسف ايهاب عبد الرارق | B3 Section            | Add Book    |
|              | 5.10                  | Sabilot Satola marquo |             |
| 15           | يوسف ايهاب            | В3                    | Edit Delete |
| 16           | 234234                | 4                     | Edit Delete |
| 17           | 234234                | 4                     | Edit Delete |
| 18           | يوسف ايهاب عبد الرارق | B3 Section            | Edit Delete |

The entire website right here:[Right here]

database for my project

I used MockAPI to create a fake online database for my project.

- 1. I created a new project on MockAPI.io.
- 2. I added a **resource called "books"** to store information about books.
- 3. Each book has:
  - an ID
  - a title

- an author name
- 4. I added **50 fake books** with different titles and authors.
- 5. MockAPI gave me a **link (API endpoint)** that I can use in my website to:
  - Show all books (GET)
  - Add a new book (POST)
  - Edit book info (PUT)
  - Delete a book (DELETE)

The API link I used: [MockAPI]