

# Mobile API and Framework

**Group: 1**

**Group Members:** Roshan Khatri and Yogesh Neupane

**Task:** Group Assignment-2: Express API using CRUD Operations.

## Directory Structure:

- Index.js
- Src
  - Controller
    - bookController.js
  - Model
    - bookModel.js
  - Middleware
    - bookMiddleware.js
  - Routes
    - bookRoutes.js

The above structure shows that our project has followed the MVC pattern.

## Code Comments and Documentation:

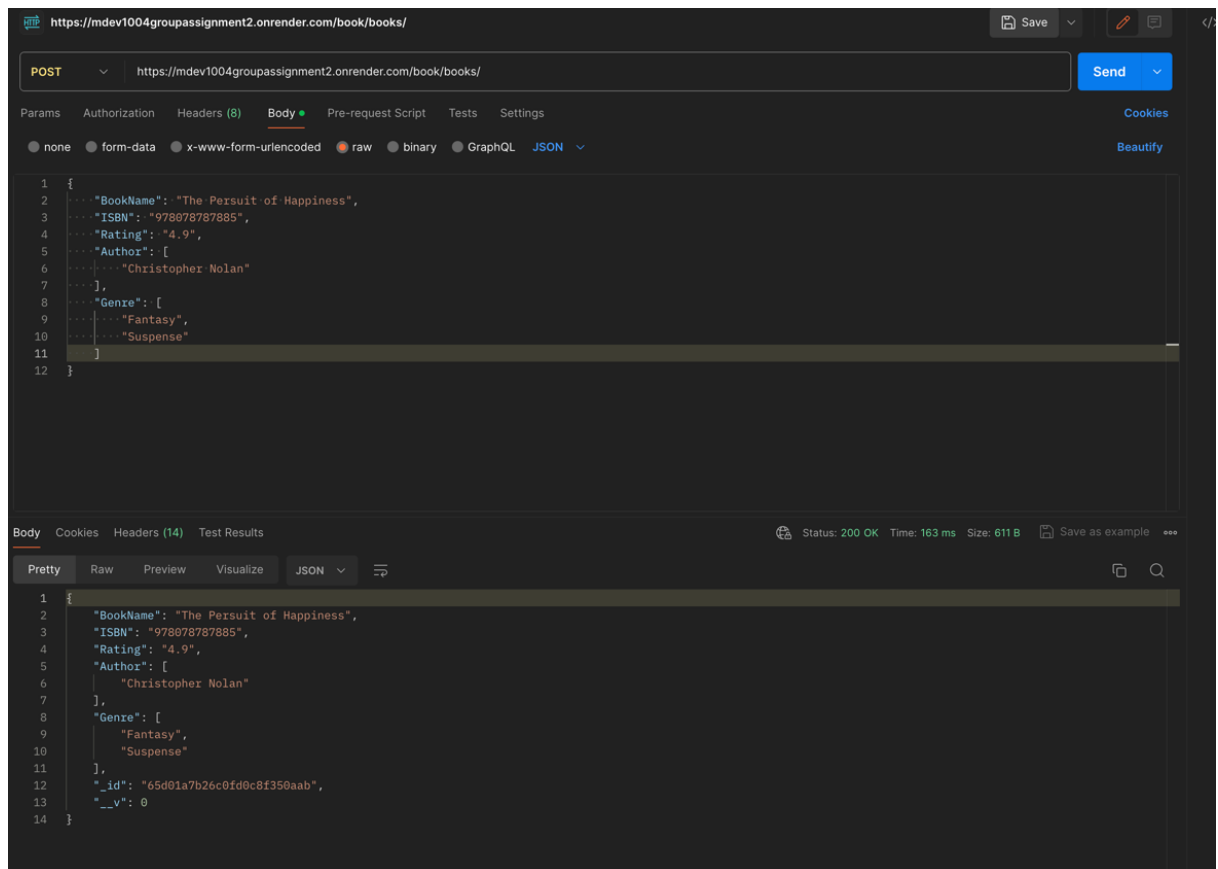
The JavaScript code contains inline comments that provide clear explanations of complex functions and event handling. The

comments aim to enhance readability without introducing unnecessary complexity, following best practices for clarity.

## Screenshots of the Postman:

### 1. Create New Book:

Below screenshot shows new book is added using body with required details. And the result is displayed after the book is successfully added to the database.



## 2. Fetching All Books

Below screenshot shows list of all books from the database.

The screenshot displays a REST client interface with the following details:

- URL:** `https://mdev1004groupassignment2.onrender.com/book/books/`
- Method:** `GET`
- Status:** `200 OK`, **Time:** `401 ms`, **Size:** `8.07 KB`
- Response Format:** `JSON`
- Response Body:** A JSON array containing two book objects.

```
1 {
2   {
3     "_id": "65cd470a066bd6139d9b4490",
4     "BookName": "The Hobbit",
5     "ISBN": "9780547928227",
6     "Rating": "4.28",
7     "Author": [
8       "J.R.R. Tolkien"
9     ],
10    "Genre": [
11      "Fantasy",
12      "Adventure"
13    ],
14    "__v": 0
15  },
16  {
17    "_id": "65cd470a066bd6139d9b4492",
18    "BookName": "The Lord of the Rings",
19    "ISBN": "9780261102385",
20    "Rating": "4.5",
21    "Author": [
22      "J.R.R. Tolkien"
23    ],
24    "Genre": [
25      "Fantasy",
26      "Adventure"
27    ],
28    "__v": 0
29  }
30 }
```

### 3. Fetching Book By ID

Below screenshot shows the result of fetched book according to the id provided while requesting.

The screenshot displays a REST client interface with the following details:

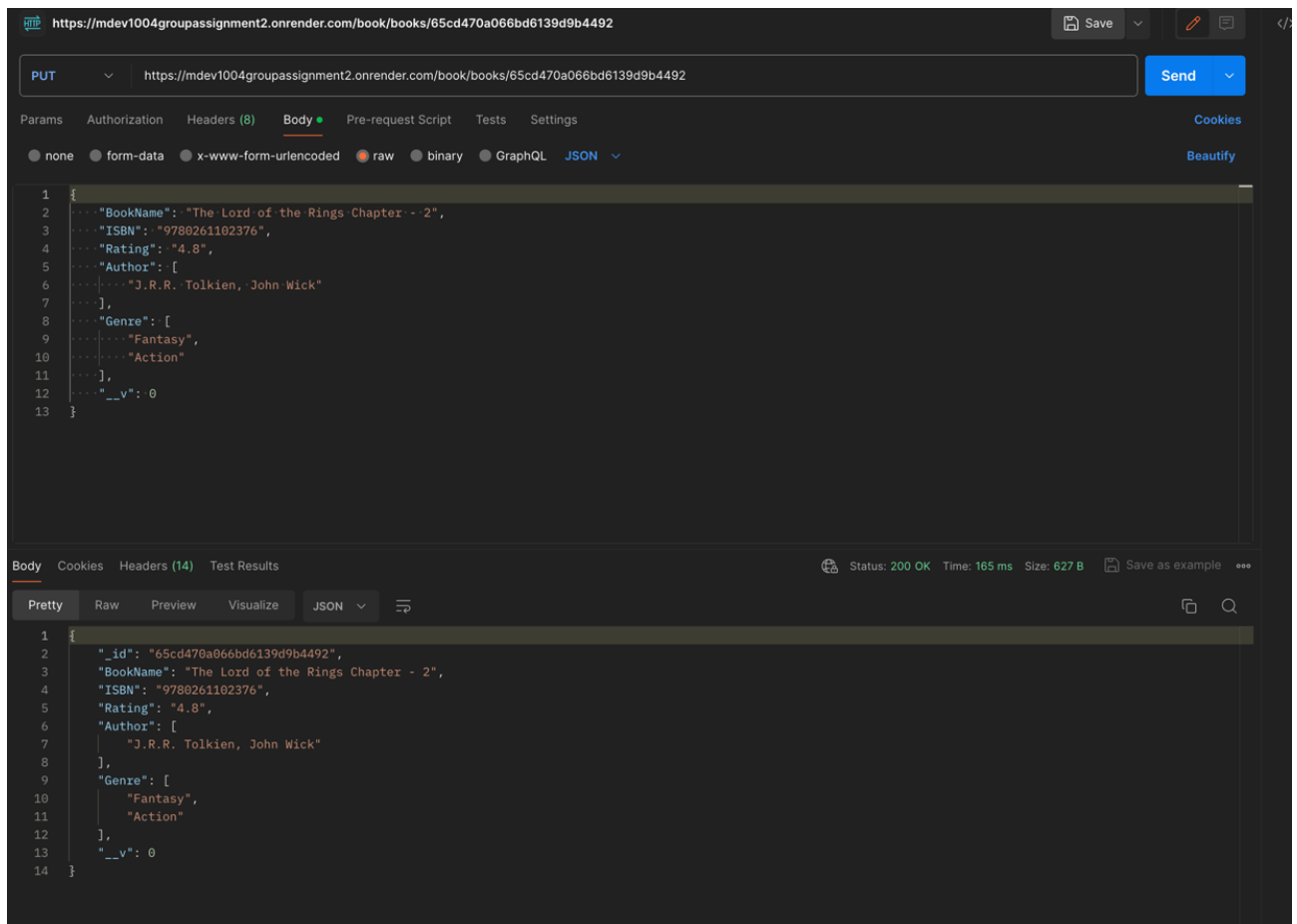
- URL:** `https://mdev1004groupassignment2.onrender.com/book/books/65cd470a066bd6139d9b4492`
- Method:** GET
- Send Button:** A blue button labeled "Send" with a dropdown arrow.
- Params Tab:** Shows "Query Params" with a table:

Key	Value	Description
Key	Value	Description
- Body Tab:** Shows the response in JSON format:

```
1 {
2   "_id": "65cd470a066bd6139d9b4492",
3   "BookName": "The Lord of the Rings",
4   "ISBN": "9780261102385",
5   "Rating": "4.5",
6   "Author": [
7     "J.R.R. Tolkien"
8   ],
9   "Genre": [
10    "Fantasy",
11    "Adventure"
12  ],
13   "__v": 0
14 }
```
- Status Bar:** Status: 200 OK, Time: 176 ms, Size: 607 B. Includes a "Save as example" button.

## 4. Updating Book

Below screenshot shows body in JSON format where new information is inputted. And the result is displayed accordingly after the book is successfully updated to the database.



## 5. Deleting Book by ID

Below screenshot shows book is deleted using book id. And the result is displayed as null because no book was available with given id after the book is successfully deleted.

