API Documentations

User APIs

1. Create a New User

Endpoint: POST /users/create/

Description: Create a new user in the system.

Request Body:

```
{
  "username": "jo_doe",
  "email": "jo.doe@example.com",
  "password": "password"
}
```

Response:

json

Copy code

```
{
  "UserID": 1,
  "username": "jo_doe",
  "email": "jo.doe@example.com"
}
```

2. List All Users

Endpoint: GET /users/list/

Description: Retrieve a list of all users in the system.

Response:

```
[
  {
    "UserID": 1,
    "username": "jo_doe",
    "email": "jo.doe@example.com"
  },
  {
    "UserID": 2,
    "username": "jane_smith",
    "email": "jane.smith@example.com"
  }
]
```

3. Get User by ID

Endpoint: GET /users/{UserID}/

Description: Retrieve user details by their unique ID.

Response:

```
{
  "UserID": 1,
  "username": "jo_doe",
  "email": "jo.doe@example.com"
}
```

Books APIs

1. Add a New Book

Endpoint: POST /books/add/

Description: Add a new book to the library system.

Request Body:

```json
{
  "title": "The Great Gatsby",
  "author": "F. Scott Fitzgerald",
  "ISBN": "978-3-16-148410-0",
  "published_date": "1925-04-10"
}
```

Response:

json

Copy code

```json
{
  "BookID": 1,
  "title": "The Great Gatsby",
  "author": "F. Scott Fitzgerald",
  "ISBN": "978-3-16-148410-0",
  "published_date": "1925-04-10"
}
```

2. List All Books

Endpoint: GET /books/list/

Description: Retrieve a list of all books in the library system.

Response:

json

Copy code

```json
[
  {
    "BookID": 1,
    "title": "The Great Gatsby",
    "author": "F. Scott Fitzgerald",
    "ISBN": "978-3-16-148410-0",
    "published_date": "1925-04-10"
  },
  {
    "BookID": 2,
    "title": "To Kill a Mockingbird",
    "author": "Harper Lee",
    "ISBN": "978-0-06-112008-4",
    "published_date": "1960-07-11"
  }
]
```

3. Get Book by ID

Endpoint: GET /books/{BookID}/

Description: Retrieve book details by its unique ID.

Response:

json

Copy code

```json
{
  "BookID": 1,
  "title": "The Great Gatsby",
  "author": "F. Scott Fitzgerald",
  "ISBN": "978-3-16-148410-0",
  "published_date": "1925-04-10"
}
```

4. Assign/Update Book Details

Endpoint: PUT /books/{BookID}/update/

Description: Update details of an existing book.

Request Body:

json

Copy code

```json
{
  "title": "Updated Title",
  "author": "Updated Author",
  "ISBN": "978-1-23-456789-0",
  "published_date": "2022-01-01"
}
```

Response:

json

Copy code

```json
{
  "BookID": 1,
  "title": "Updated Title",
  "author": "Updated Author",
```

```json
  "ISBN": "978-1-23-456789-0",
  "published_date": "2022-01-01"
}
```

Borrowed Books APIs

1. Borrow a Book

Endpoint: POST /books/borrow/

Description: Borrow a book from the library.

Request Body:

json

Copy code

```json
{
  "UserID": 1,
  "BookID": 1,
  "borrow_date": "2024-02-01",
  "due_date": "2024-02-15"
}
```
Response:

json

Copy code

```json
{
  "id": 1,
  "UserID": 1,
  "BookID": 1,
  "borrow_date": "2024-02-01",
  "due_date": "2024-02-15"
```

}

2. Return a Borrowed Book

Endpoint: PUT /books/return/{id}/

Description: Return a borrowed book.

Response:

json
Copy code
```json
{
  "id": 1,
  "UserID": 1,
  "BookID": 1,
  "borrow_date": "2024-02-01",
  "return_date": "2024-02-10"
}
```

3. List All Borrowed Books

Endpoint: GET /books/borrowed/list/

Description: Retrieve a list of all borrowed books.

Response:

json
Copy code
```json
[
  {
    "id": 1,
    "UserID": 1,
```

```json
    "BookID": 1,

    "borrow_date": "2024-02-01",

    "due_date": "2024-02-15"

  },

  {

   "id": 2,

   "UserID": 2,

   "BookID": 2,

   "borrow_date": "2024-02-05",

   "due_date": "2024-02-20"

  }

]
```