

Library Management System Backend Documentation

1. PROJECT OVERVIEW :

The project is a Library Management System that allows admins to manage books. It includes both API endpoints and HTML views for CRUD operations on books. Admins can sign up and log in to the system.

2. Models :

I. Admin:

• Fields:

- **name:** CharField, max length 100.
- **email:** EmailField, unique.
- **password:** CharField, max length 100.

II. Book:

• Fields:

- **title:** CharField, max length 200.
- **author:** CharField, max length 100.
- **isbn:** CharField, max length 13, unique.
- **published_date:** DateField.

3. API Endpoints:

I. Admin SignUp:

- **URL :** /api/admin/signup/
- **Method :** POST
- **Description :** Allows an admin to sign up by providing name, email, and password.

II. Admin Login :

- **URL :** /api/admin/login/
- **Method :** POST
- **Description :** Allows an admin to log in by providing email and password

III. Book List :

- **URL :** /api/books/
- **Method :** GET, POST
- **Description :** **GET :** Retrives list of all books.
POST : Creates a new book.

IV. Book Details :

- **URL** : /api/books/<int:pk>/
- **Method** : GET, PUT, DELETE
- **Description** : **GET** : Retrives details of specific book.
PUT : Updates a specific book.
DELETE : Deletes a specific book.

4. HTML Views :

I. Book List :

- **URL** : /html/books/
- **Description** : Displays a list of all books.

II. Book Detail :

- **URL** : /html/books/<int:pk>/
- **Description** : Display details of a specific book.

III. Book Create :

- **URL** : /html/books/create/
- **Description** : Allows the creation of a new book via a form.

IV. Book Update :

- **URL** : /html/books/<int:pk>/update/
- **Description** : Allows updating a specific book via a form.

V. Book Delete :

- **URL** : /html/books/<int:pk>/delete/
- **Description** : Allows deleting a specific book.

VI. Admin Signup :

- **URL** : /html/admin/signup/
- **Description** : Admin Registration

VII. Admin Login :

- **URL** : /html/admin/login/
- **Description** : Admin Login

5. Templates :

- **base.html** : Base template for all HTML views.
- **book_list.html**: Displays a list of books.
- **book_detail.html**: Displays details of a specific book.

- **book_create.html**: Form for creating a new book.
- **book_update.html**: Form for updating a book.
- **book_delete.html**: Confirmation page for deleting a book.
- **admin_signup.html**: Registration of admin.
- **admin_login.html** : Login for admin.