

1. Title

Library Management System

Type: Django Application

Developed By :

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1.Introduction

Objective of the project:

- To provide a centralized system for Library management.
- To provide end to end support to cover all the aspects of management system.
- To collect customer data about bookings.
- To provide easy user interface for managing website.

Description of the current system:

- In the current system centralized management is partially implemented.
- In the current system,we can add,update,delete books through admin panel.
- Admin can issue or return books to students.
- Students can view the books.

2.Requirement Specification

Software Requirement

- Operating System – Microsoft Windows 7 Or Above
- Application Software – Front end: HTML, CSS
- Back end: Django, MySQL
- Platform –Python

Hardware Requirement

- Processor - 1.6 GHz
- RAM - 4GB or more
- Disk Space – 3 GB or less

Data Requirement

- Username{String}
- Password {String}
- Email-address {String}

3. System Design Details

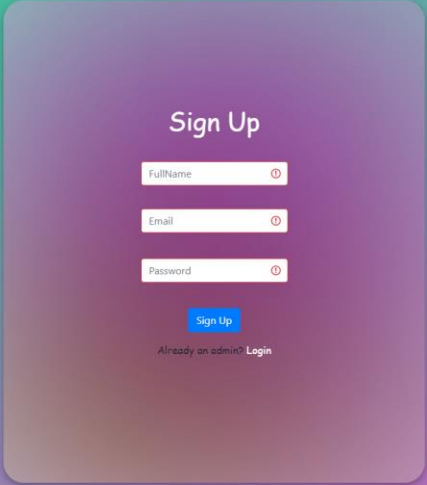
Event Table:

EVENT	TRIGGER	SOURCE	ACTIVITY	RESPONSE	DESTINATION
Admin Registration	Registration	Super	Register	Register Successful	Super
Admin Login	Admin login	SUPER	Authentication / login	Login Unsuccessful	Admin Login
Admin Login	Admin Login	Main Branch Login	Authentication / login	Login Successful	Admin Pannel
Add Book	Book Registration	Admin Pannel	Register/Add	Register Successful.	Admin Pannel
Remove Book	Book Removal	Admin Pannel	Removal	Book Removed.	Admin Pannel
Update Book	Book Update	Admin Pannel	updation of book Details	Book updated Successful.	Admin Pannel
Issue Book	Book Issue	Admin Pannel	Issue Book	Book issued Sucessfully	Admin Pannel
Return Book	Return Book	Admin Pannel	Return Book	Book Return Successful.	Admin Pannel

Images: studentview





Register:




A registration form titled "Sign Up" is centered on a purple-to-teal gradient background. The form is contained within a light purple rounded rectangle. It features three input fields: "FullName", "Email", and "Password", each with a red eye icon to its right. Below the fields is a blue "Sign Up" button. At the bottom, a link "Already an admin? Login" is displayed.

Sign Up

FullName 

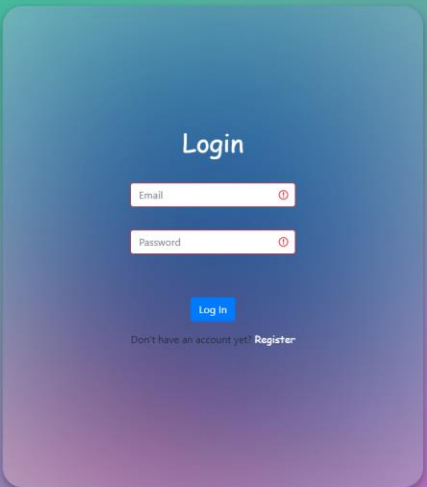
Email 

Password 

[Sign Up](#)


[Already an admin? Login](#)


Login:



A login form titled "Login" is centered on the same purple-to-teal gradient background. The form is contained within a light purple rounded rectangle. It features two input fields: "Email" and "Password", each with a red eye icon to its right. Below the fields is a blue "Log In" button. At the bottom, a link "Don't have an account yet? Register" is displayed.

Login

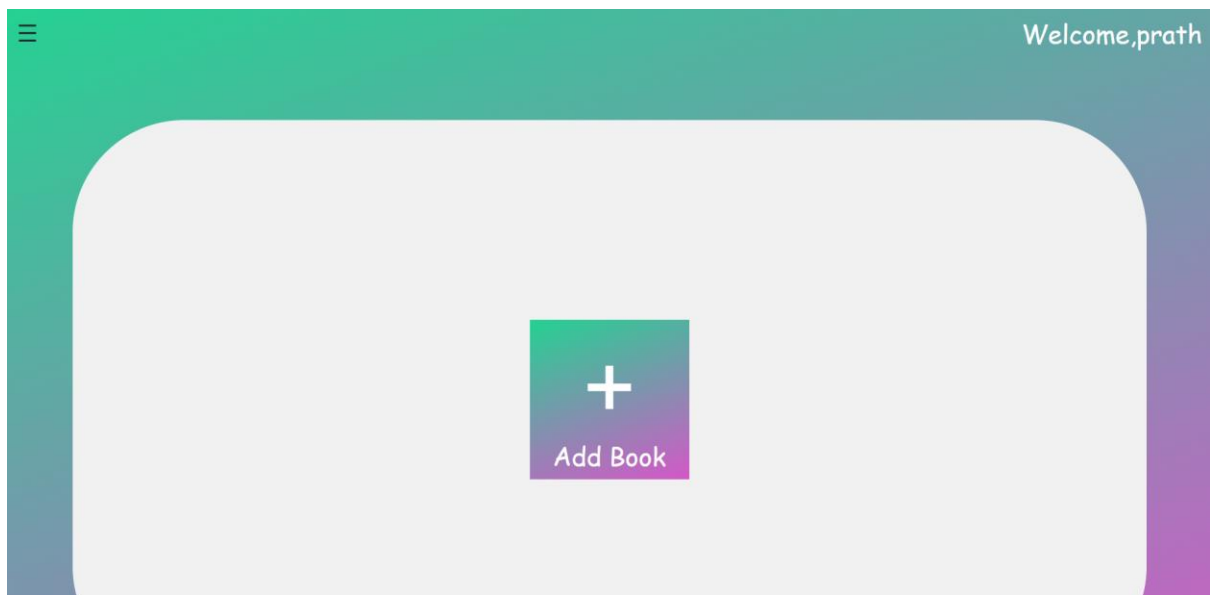
Email 

Password 

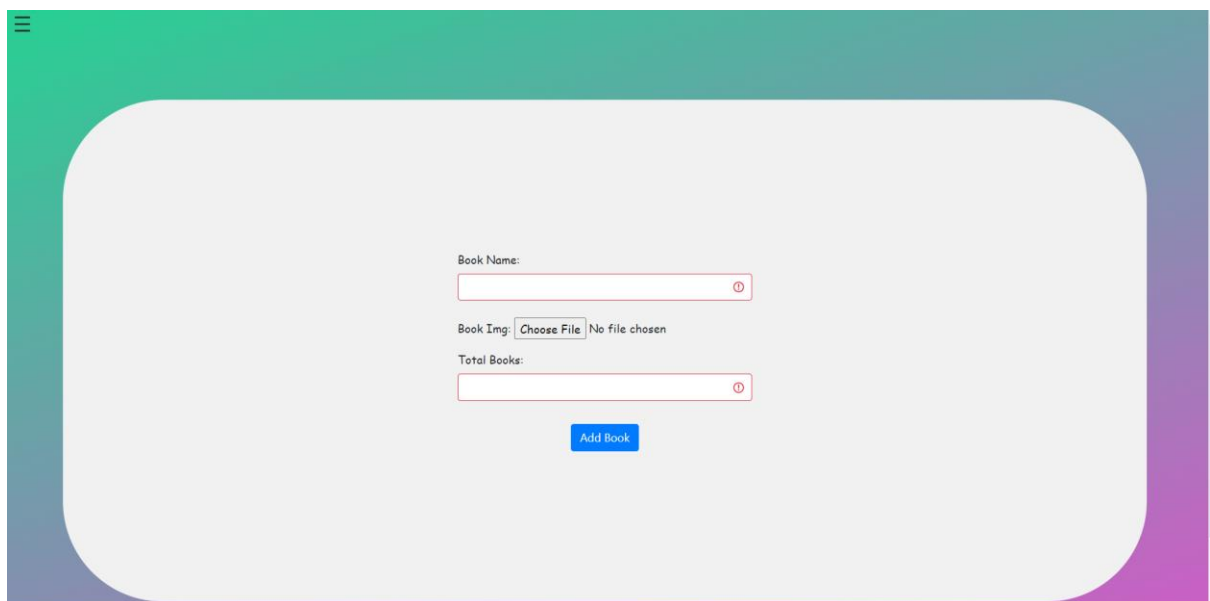
[Log In](#)

[Don't have an account yet? Register](#)

Admin panel:




Add Book:




The image shows the "Add Book" form in the admin panel. It features a green header bar with a hamburger menu icon on the left. The main content area is a light gray rounded rectangle containing the following form elements:

- Book Name:** A text input field with a red border and a red circular icon with a white "i" on the right.
- Book Img:** A file upload section with a "Choose File" button and the text "No file chosen".
- Total Books:** A text input field with a red border and a red circular icon with a white "i" on the right.
- Add Book:** A blue button with white text.


Update Book:




Book Name:



Search Book



Book Name:




Book Img:


Choose File

No file chosen


Total Books:



Available Books:

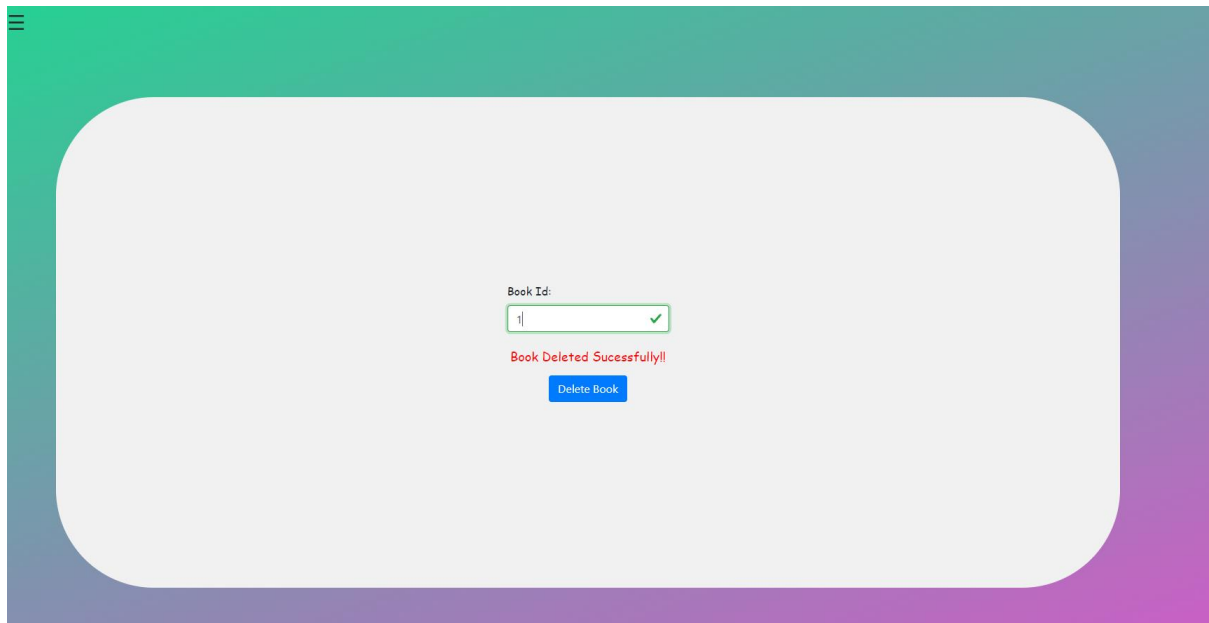


Issued Books:



Update Book

Delete Book:



A screenshot of a web application interface for deleting a book. The interface features a green header bar with a hamburger menu icon on the left. The main content area has a light gray background with rounded corners. In the center, there is a form with a label "Book Id:" above a text input field containing the value "1". A green checkmark icon is visible to the right of the input field. Below the input field, a red message "Book Deleted Sucessfully!!" is displayed. At the bottom of the form, there is a blue button labeled "Delete Book".

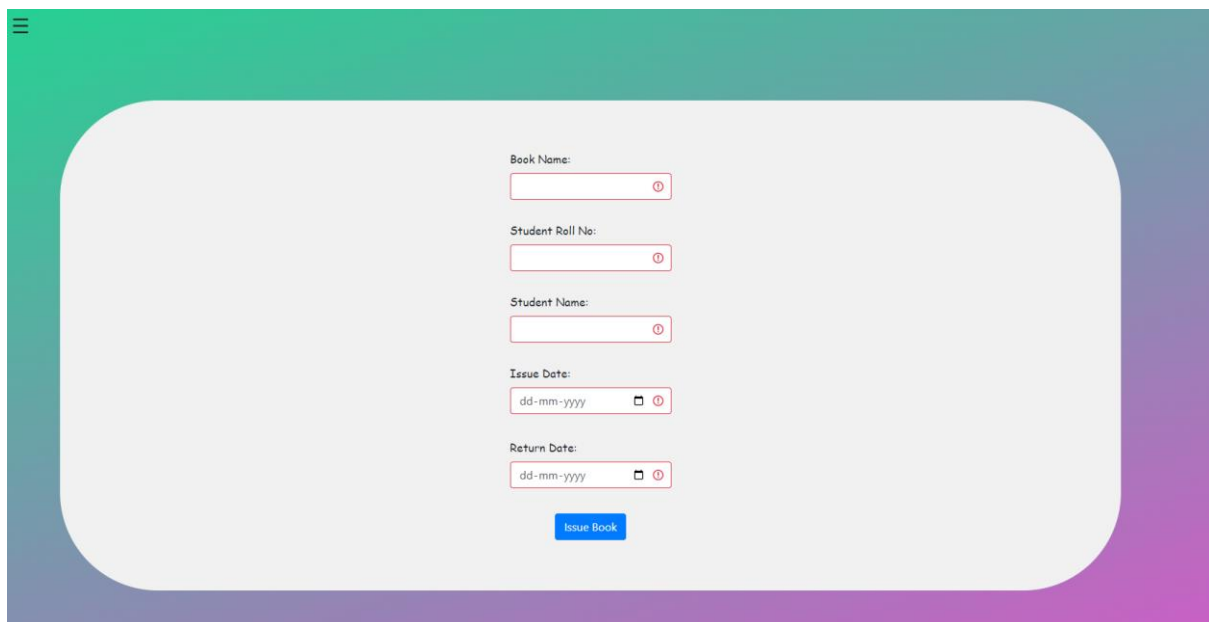
Book Id:

1

Book Deleted Sucessfully!!

Delete Book

Issue Book:



A screenshot of a web application interface for issuing a book. The interface features a green header bar with a hamburger menu icon on the left. The main content area has a light gray background with rounded corners. In the center, there is a form with several input fields: "Book Name:" (text input), "Student Roll No:" (text input), "Student Name:" (text input), "Issue Date:" (date input with a calendar icon), and "Return Date:" (date input with a calendar icon). Each input field has a red border and a red circular icon with a white exclamation mark to its right. Below the input fields, there is a blue button labeled "Issue Book".

Book Name:

Student Roll No:

Student Name:

Issue Date:

Return Date:

Issue Book

Return Book:

Student Roll No:

Student Name:Shankar

Select	Student Rollno	Issued Date	Return Date	Book Name
<input type="radio"/>	101	Sept. 23, 2022	Sept. 29, 2022	python
<input type="radio"/>	101	Sept. 24, 2022	Sept. 30, 2022	Django
<input type="radio"/>	101	Sept. 24, 2022	Sept. 27, 2022	Ruby
<input type="radio"/>	101	Sept. 23, 2022	Sept. 26, 2022	Java Programming

Future Enhancement:

- In Future this system will be updated using lighter frameworks.
- Security will be extended to a higher level of security.
- In the Future, this system will be more user friendly.
- More fields to store information would be available.
- In future, we will be able to create real-time statistical graphs using data science.

Conclusion:

- In this world of developing technology, something as trivial as Library Management can be highly modified to serve people with greater ease.
- It will greatly improve the profits of Library owners.
- It will also play an important role in providing quality service to book lovers