

Test Suite Document

For

LIBRARY

INFORMATION SYSTEM

Authors:

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Instructors:

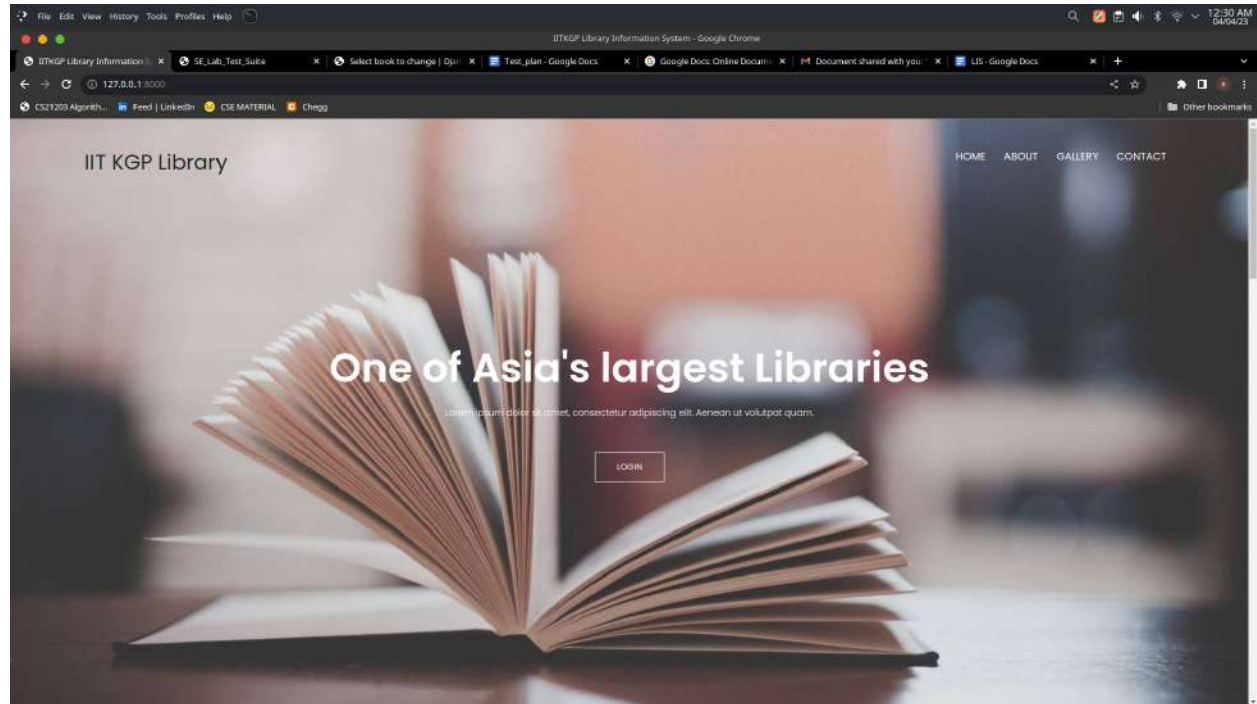
Prof. Sourangshu Bhattacharya
Prof. Abir Das
Animesh Mukherjee

Indian Institute Of Technology Kharagpur
3rd April 2023

LIBRARY INFORMATION SYSTEM

USER:

Home Page:

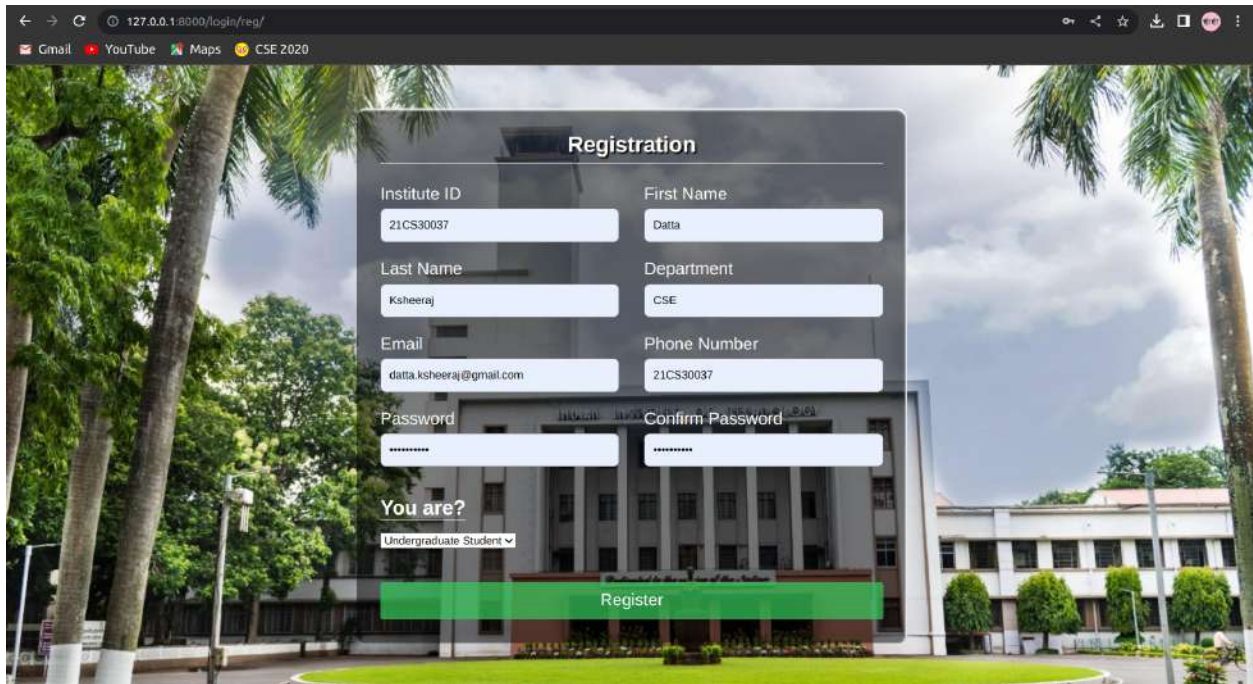


Our Library Snaps

lorem ipsum dolor sit amet, consectetur adipiscing elit.



Registration page:



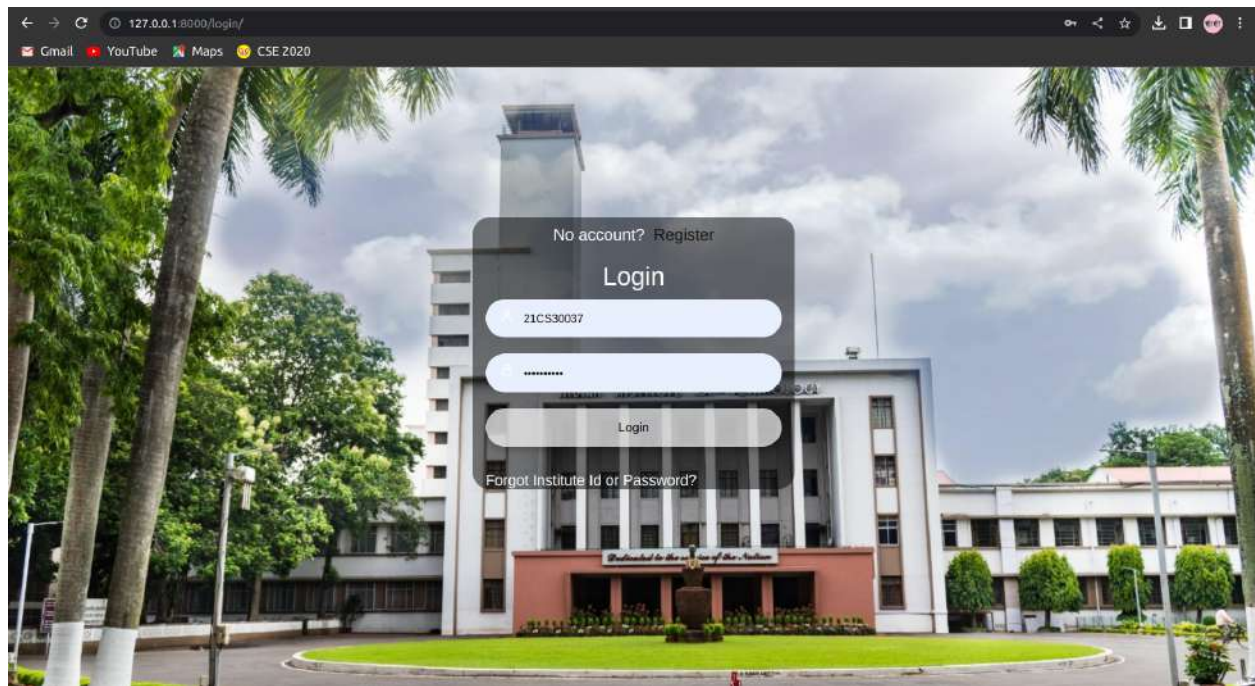
The screenshot shows a web browser window with the address bar displaying "127.0.0.1:8000/login/reg/". The browser's tab bar includes "Gmail", "YouTube", "Maps", and "CSE 2020". The main content area features a registration form titled "Registration" overlaid on a background image of a university building with palm trees. The form contains the following fields and values:

Registration	
Institute ID	21CS30037
First Name	Datta
Last Name	Ksheeraj
Department	CSE
Email	datta.ksheeraj@gmail.com
Phone Number	21CS30037
Password	*****
Confirm Password	*****
You are?	
Undergraduate Student ▼	
Register	

Successful Registration:



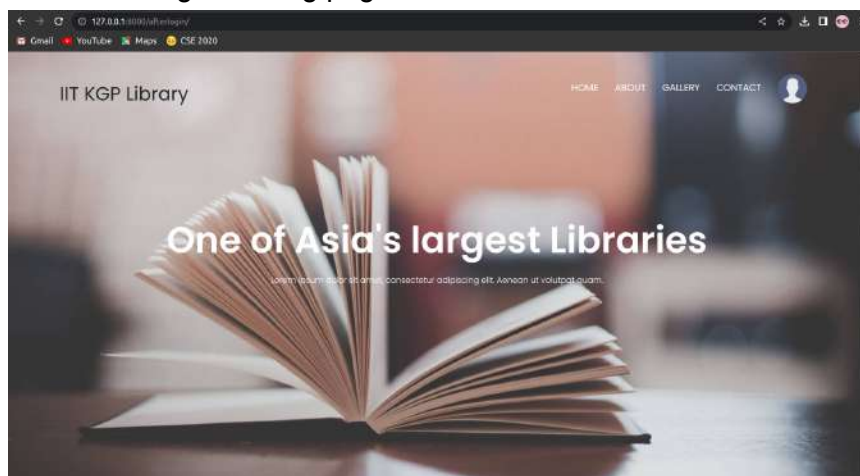
Login page(login page is common for Users(students/faculty) and the clerk:



invalid login :



Successful login landing page:



Profile:

The screenshot shows a web browser window with the URL `127.0.0.1:8000/profile/`. The page has a dark theme. On the left is a sidebar with a user profile picture and the name **Datta Ksheeraj** with ID `21CS30037. Below the name are buttons for Profile, Issued books, search, Logout, and Back. The main content area is titled Profile Section and contains the following information:`

- ID : 6
- Institute ID : 21CS30037
- Full name : Datta Ksheeraj
- Email : datta.ksheeraj@gmail.com
- Phone number : 7993160393
- Department : CSE
- Roll number : 21CS30037

An **Edit Profile** button is located at the bottom of the profile information.

Users can view issued books, search books and view if there are any books reserved.

The screenshot shows a web browser window with the URL `127.0.0.1:8000/profile/`. The page has a dark theme. On the left is a sidebar with a user profile picture and the name **Sai mallikarjun Galipelli** with ID `21CS30019. Below the name are buttons for Profile, Issued books, search, Logout, and Back. The main content area is titled Search Section and contains a search bar. Below the search bar is a table with the following data:`

ID	Book Name	Author	ISBN	Category	Rack Number	Total Number Of Copies	Number Of Copies Already Issued	Issue	Reserve
1.	Formal language	abc	100	CS	20	4	0	<button>Issue</button>	<button>Reserve</button>

Issue book:

The screenshot shows a web application interface for a library. On the left is a sidebar with a user profile for Sai mallikarjun Galipelli (21CS30019) and navigation buttons: Profile, Issued books, search, Logout, and Back. The main area is titled 'Search Section' and contains a search bar. Below the search bar is a table with book details.

ID	Book Name	Author	ISBN	Category	Rack Number	Total Number Of Copies	Number Of Copies Already Issued	Issue	Reserve
1	Formal language	abc	100	CS	20	4	0	<button>Issue</button>	<button>Reserve</button>

Issue successful:

The screenshot shows the 'Books Issued' section of the same web application. The sidebar remains the same. The main area is titled 'Books Issued' and features a search bar. Below it is a table showing the status of issued books.

ID	Book	Author	ISBN	Issue Date	Expiry Date	Fine	Return
1.	Formal language	abc	100	April 3, 2023	May 3, 2023	0	<button>Return</button>

Return Book:

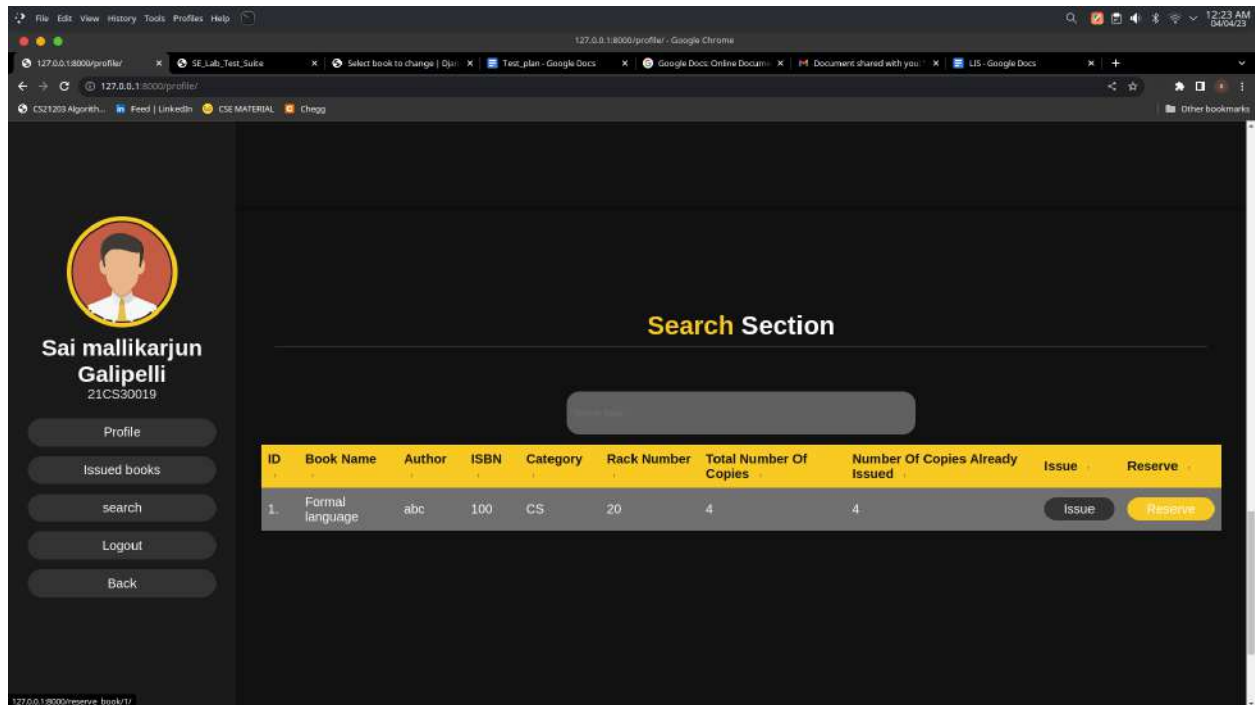
The screenshot shows a web application interface. At the top, a browser window displays the URL '127.0.0.1:8000/profile'. A modal dialog box is open, asking 'Are you sure you want to return this book?' with 'Cancel' and 'OK' buttons. Below the dialog, the user profile 'Sai mallikarjun Galipelli' is visible. The main section is titled 'Books Issued' and contains a table with the following data:

ID	Book	Author	ISBN	Issue Date	Expiry Date	Fine	Return
1.	Formal language	abc	100	April 3, 2023	May 3, 2023	0	<button>Return</button>

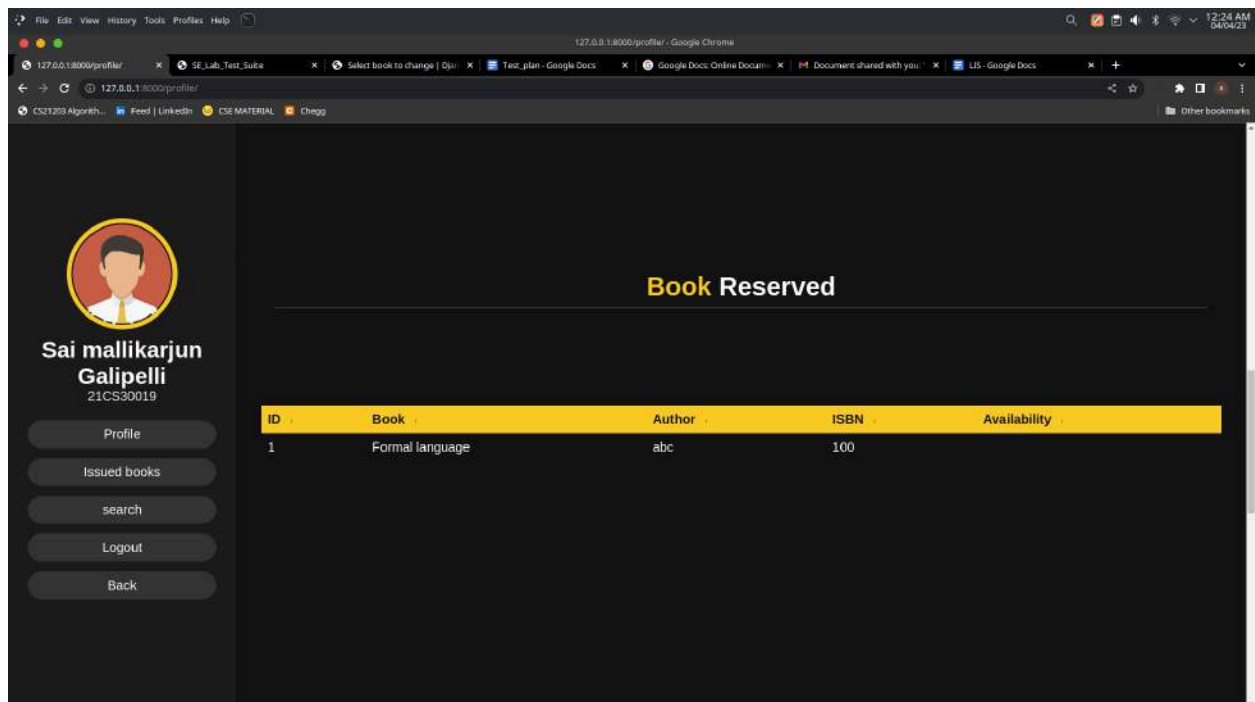
Return successful:

The screenshot shows the same web application interface after a successful book return. The 'Return' button in the table has been replaced by a green checkmark icon, indicating the book has been successfully returned.

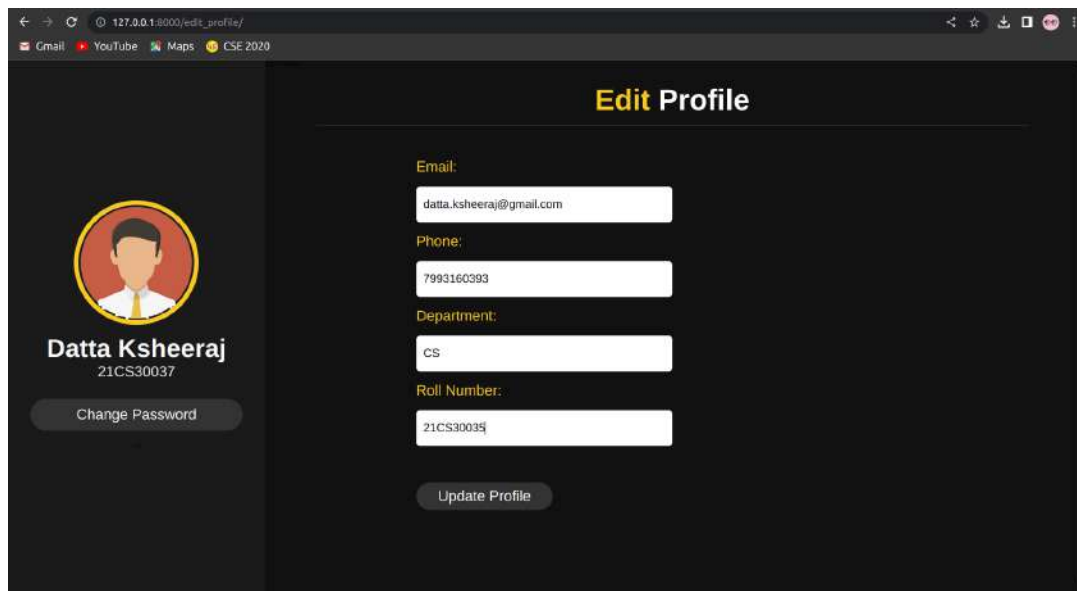
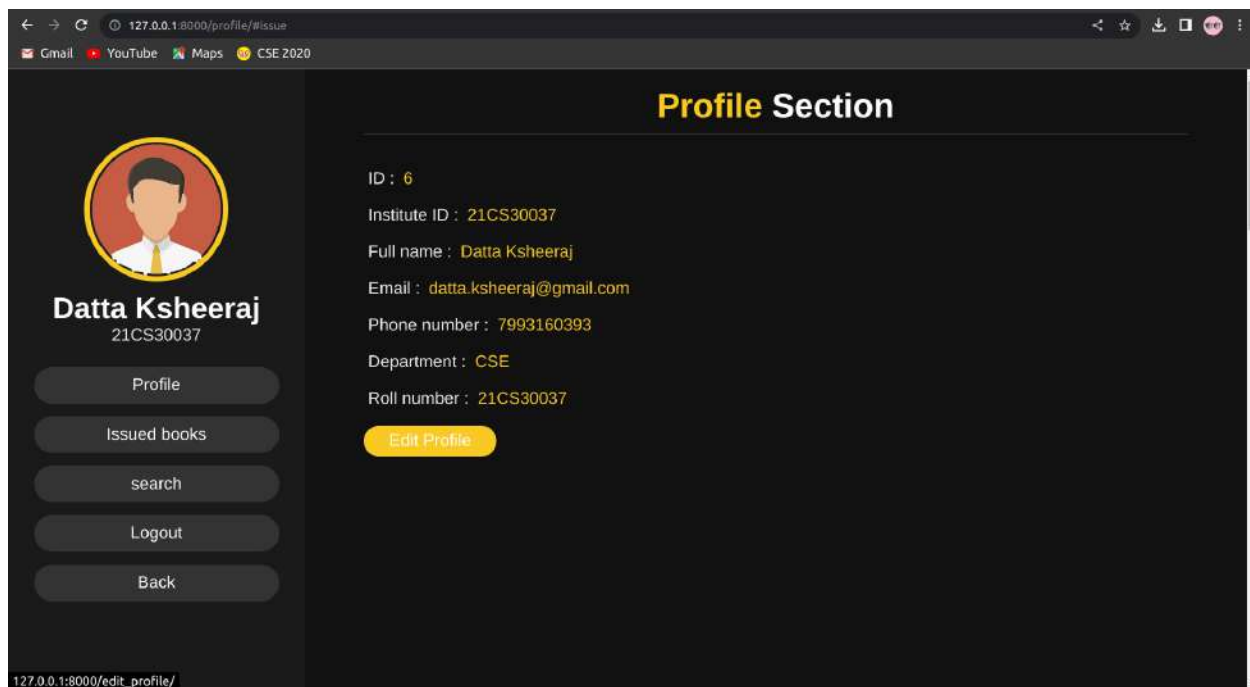
If all the copies are issued then the user will be able to reserve the book and the it will be available if someone returns the same book.



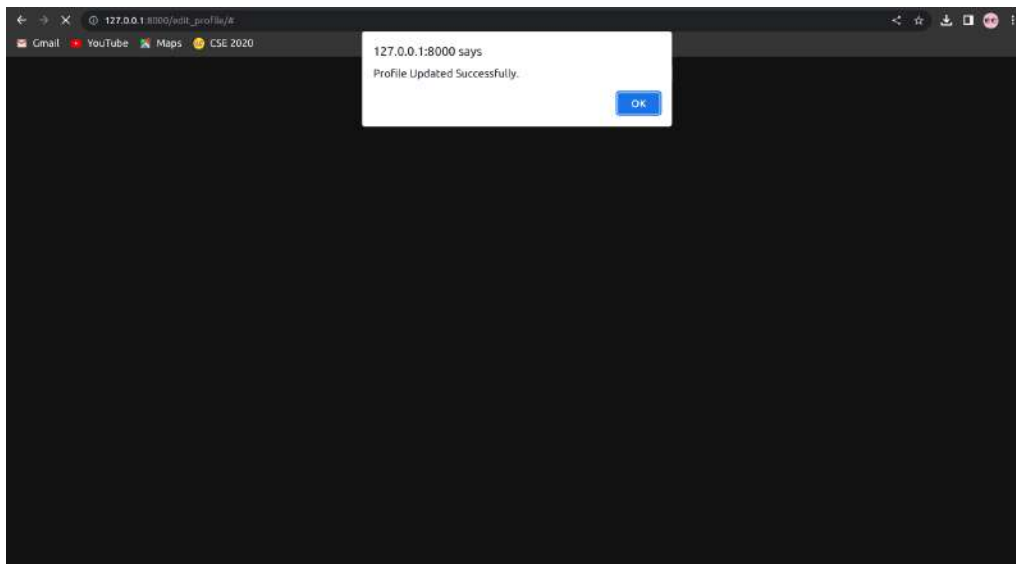
Reserve successful:



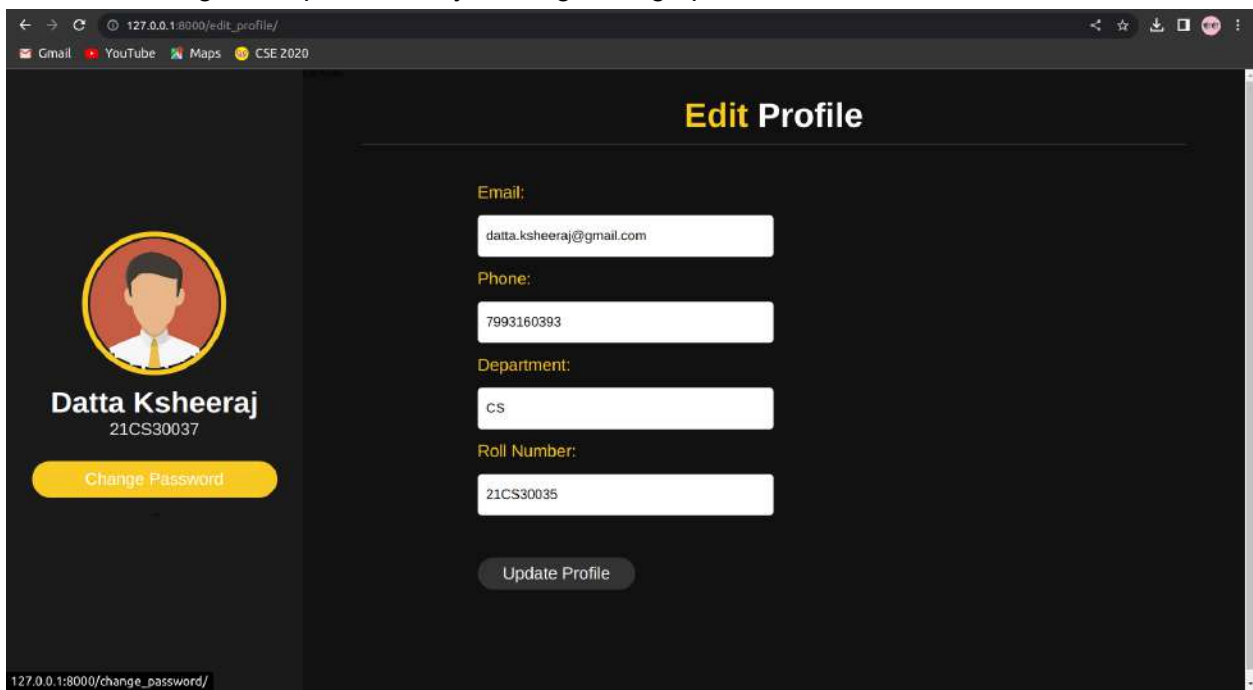
User can also edit his profile:

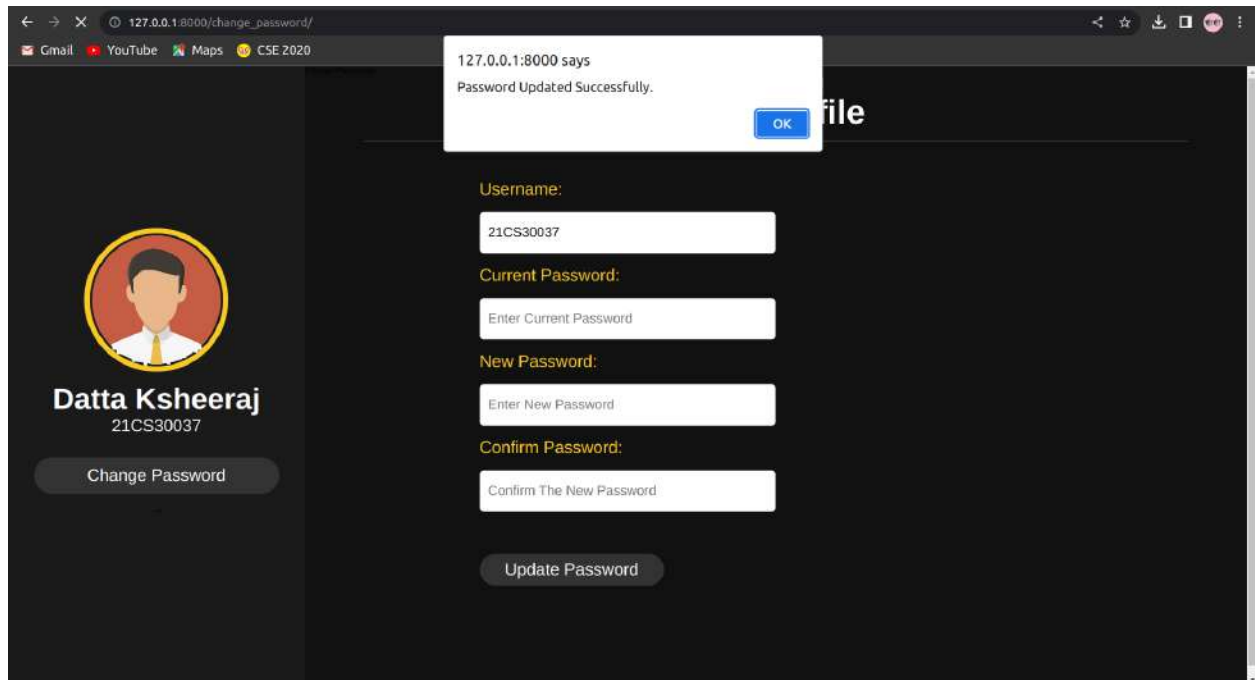


Profile is updated by clicking the update profile.

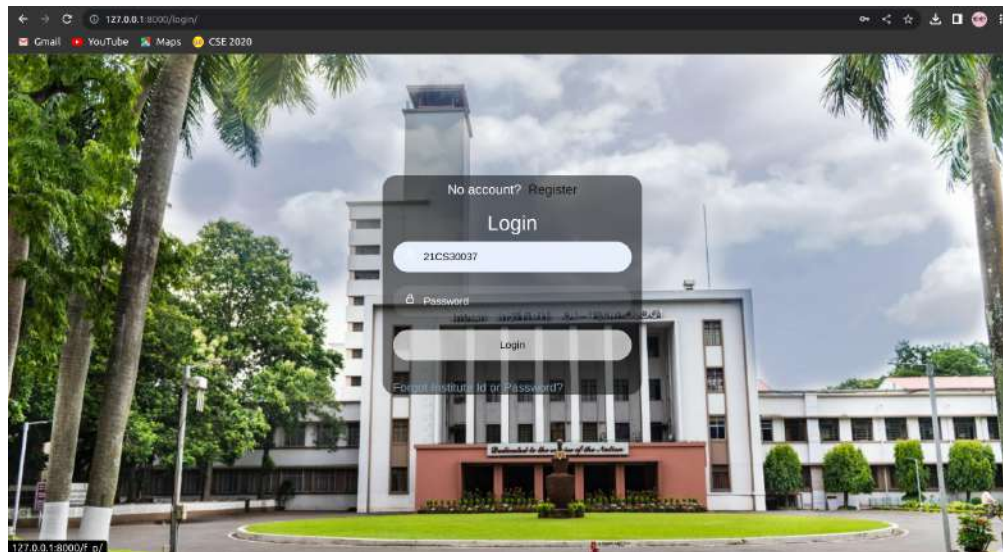


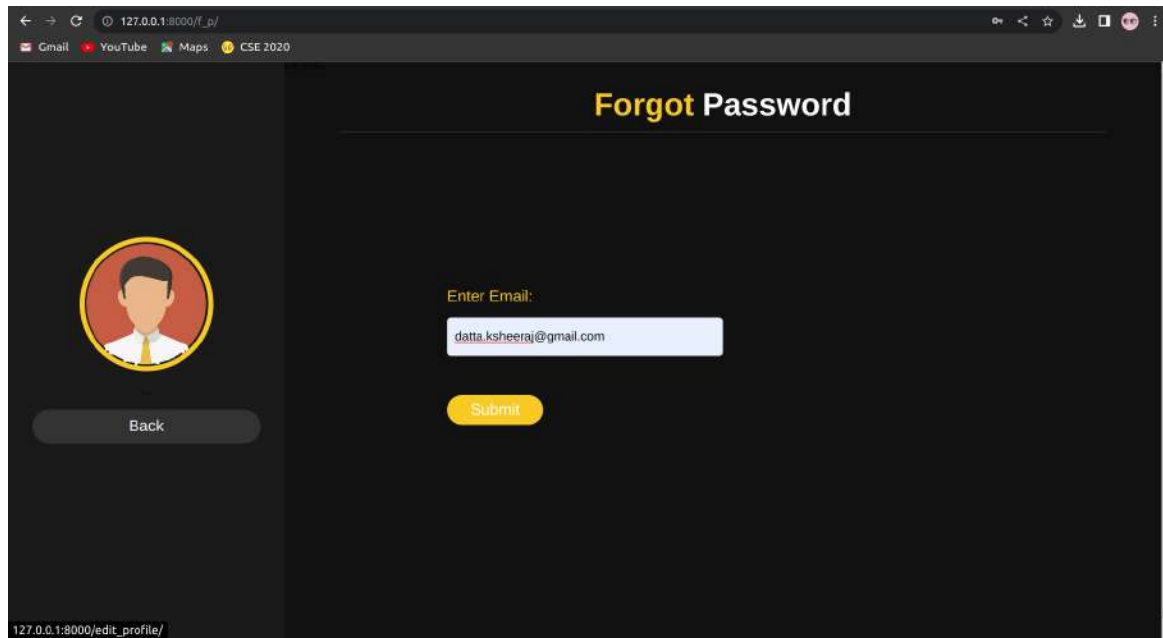
User Can change their password by clicking Change password:



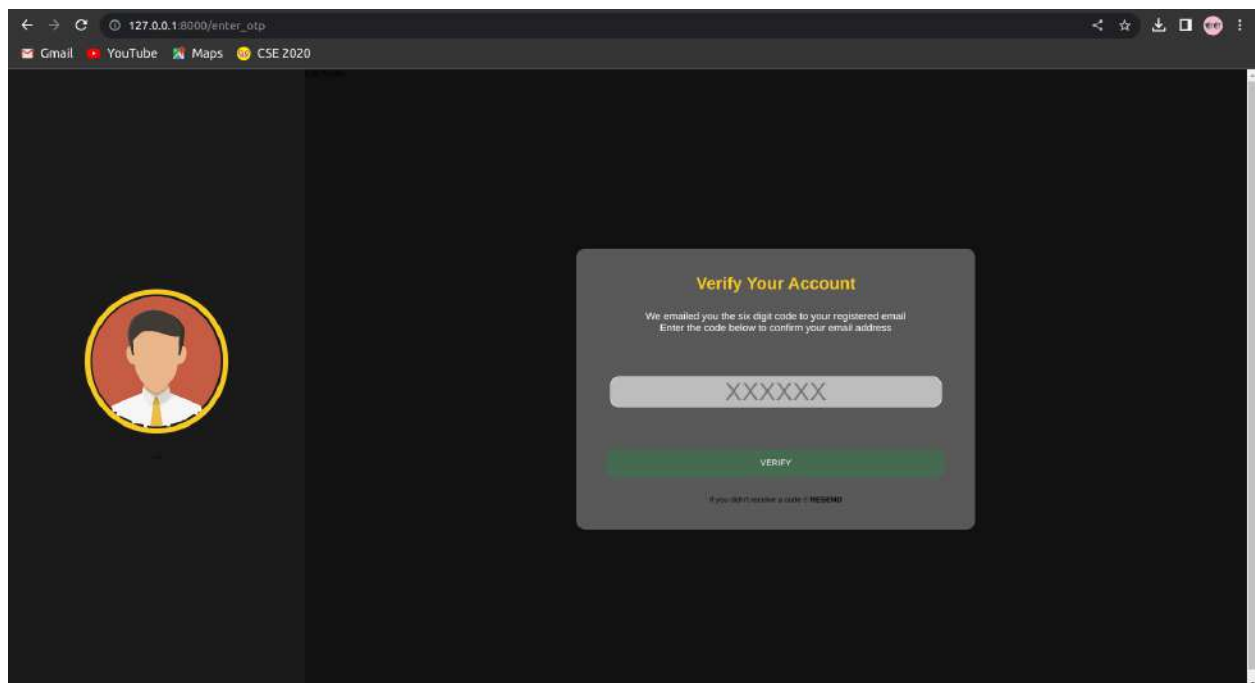


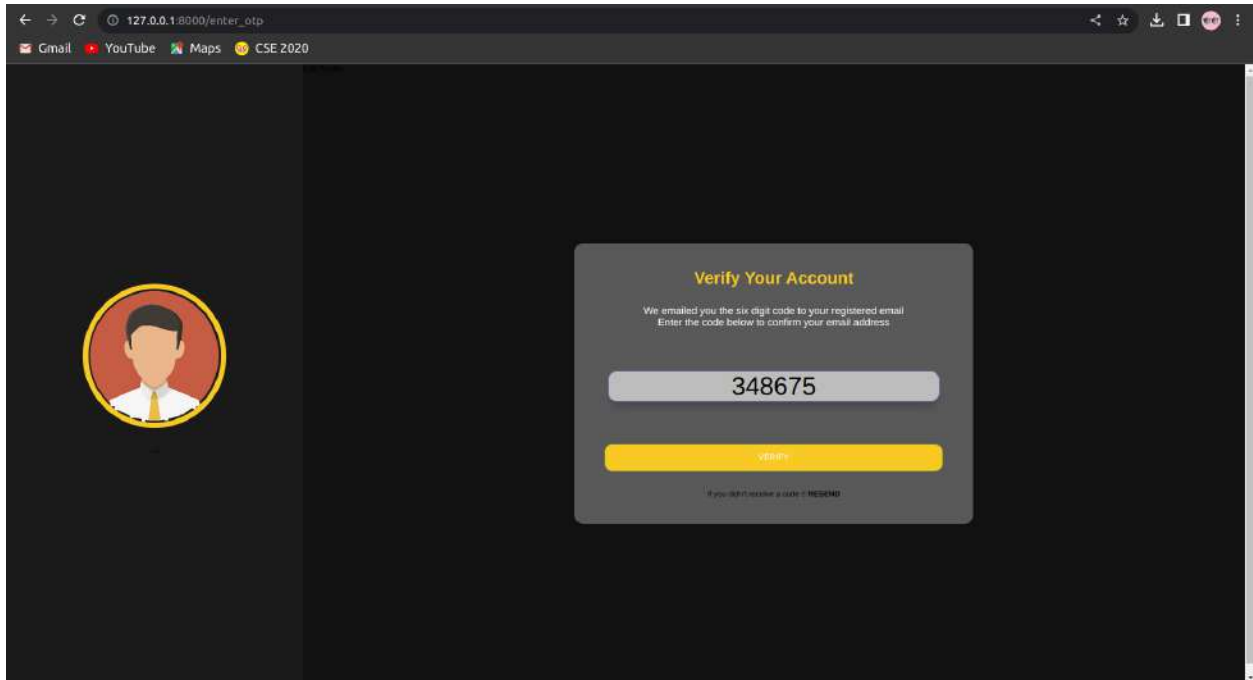
User also login if user forgot their password:



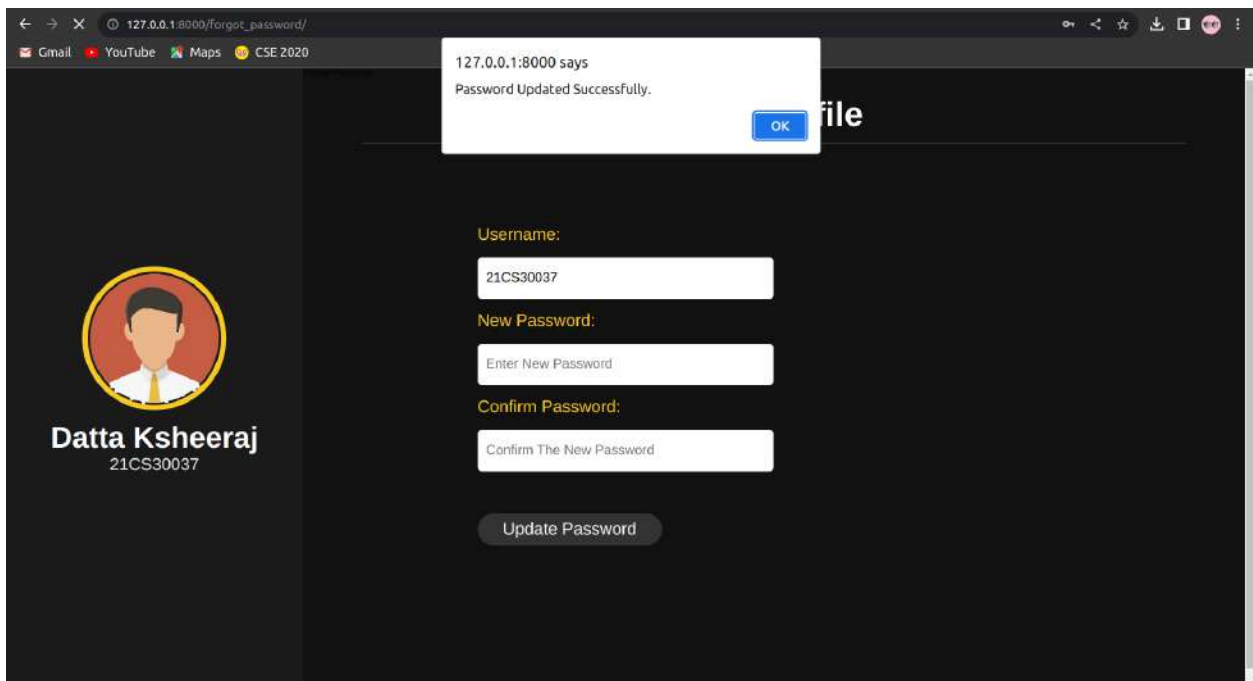


OTP sent to the EMAIL-ID





From this user lands in the change password page and can update their password.



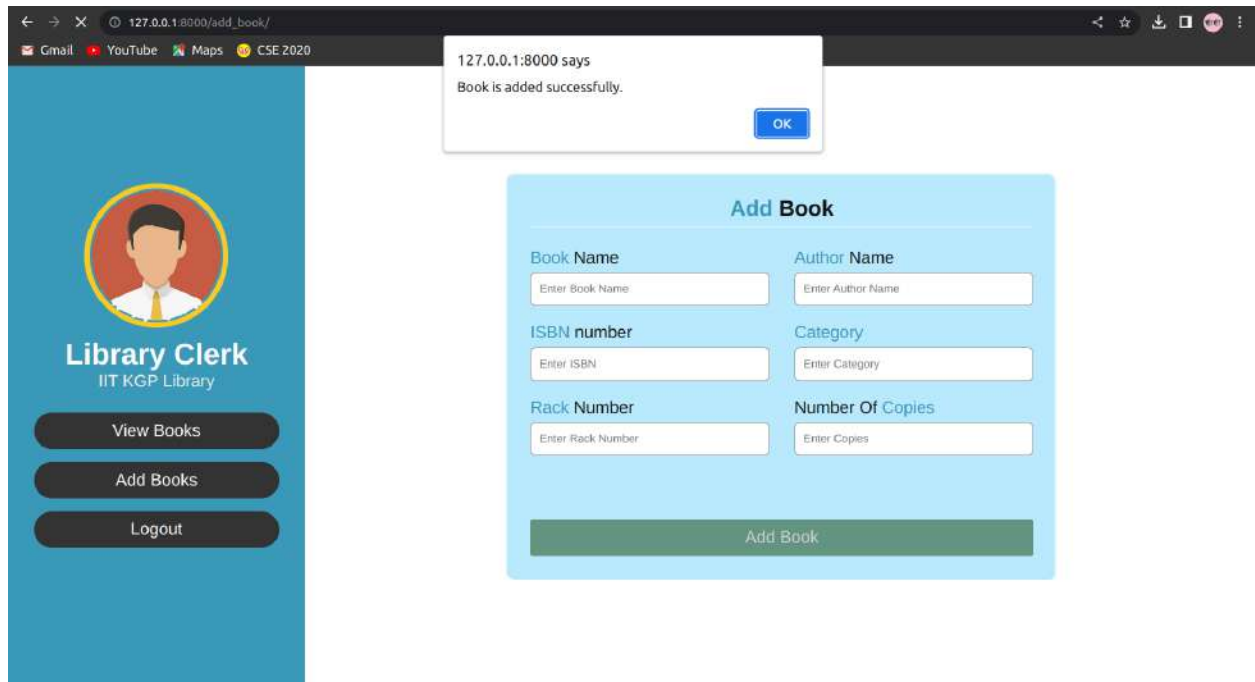
CLERK:

Clerk login page is same as of the user:

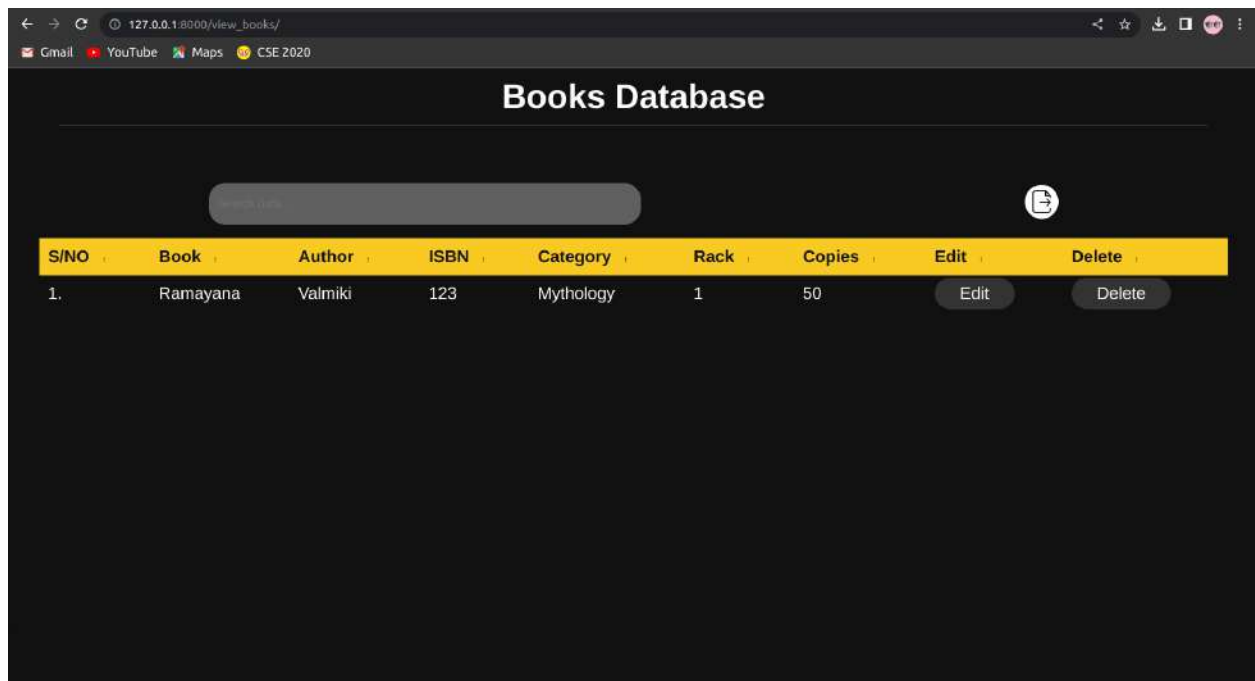
After logging in Clerk lands on the following page:

The screenshot shows a web browser window with the address bar displaying '127.0.0.1:8000/add_book/'. The browser's taskbar includes icons for Gmail, YouTube, Maps, and a clock showing 'CSE 2020'. The main content area is divided into two sections. On the left is a blue sidebar for the 'Library Clerk' at 'IIT KGP Library'. It features a circular profile icon of a man in a white shirt and yellow tie, and three dark buttons labeled 'View Books', 'Add Books', and 'Logout'. On the right is a light blue 'Add Book' form. This form contains six input fields arranged in two columns: 'Book Name' (filled with 'Ramayana'), 'Author Name' (filled with 'Valmiki'), 'ISBN number' (filled with '123'), 'Category' (filled with 'Mythology'), 'Rack Number' (filled with '1'), and 'Number Of Copies' (filled with '50'). A green 'Add Book' button is positioned at the bottom of the form.

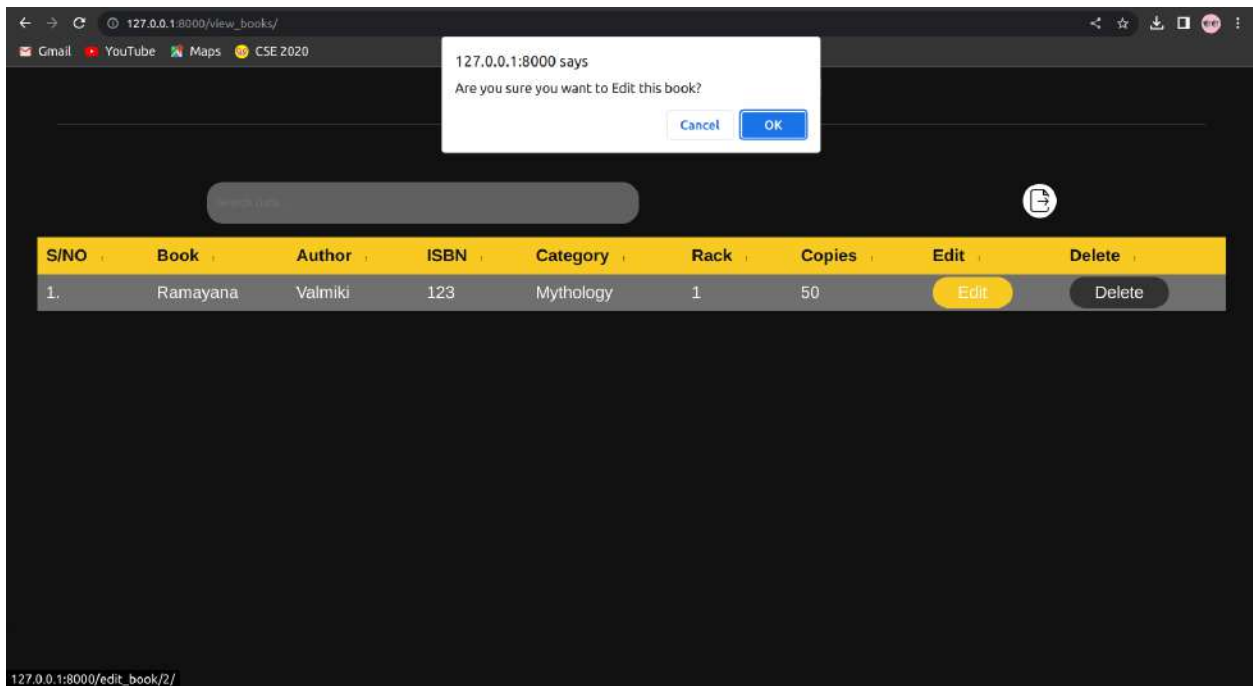
Here Clerk can add book



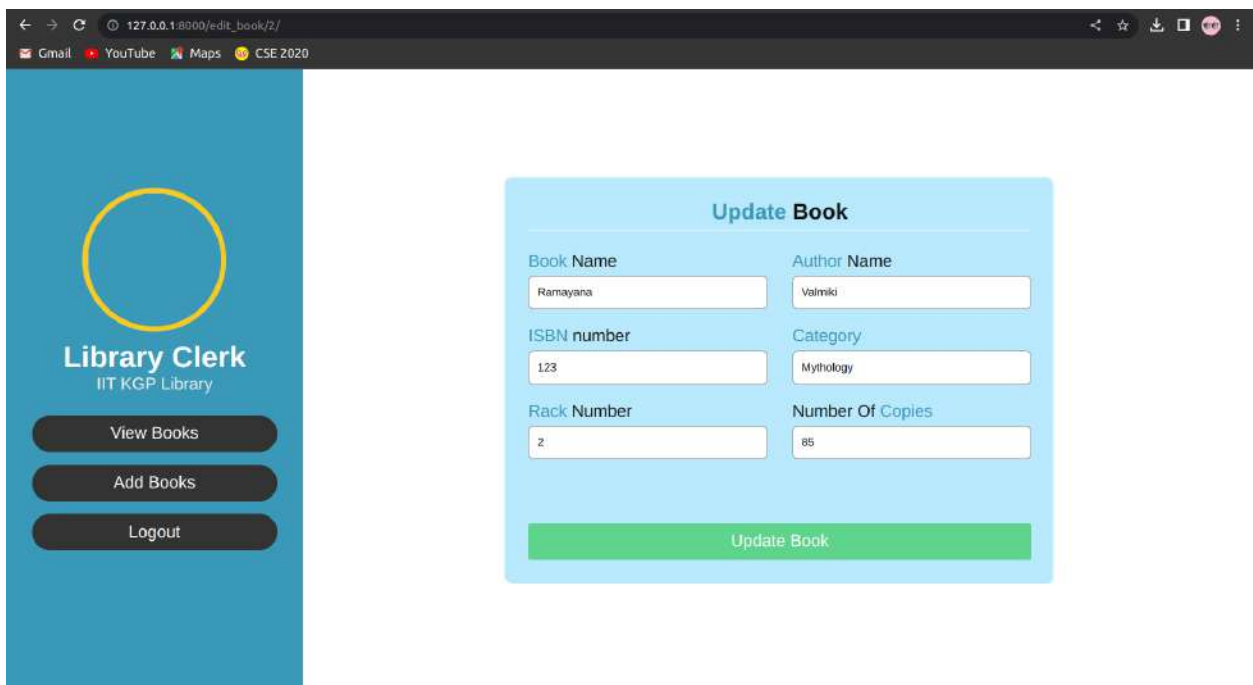
In view books, book is updated:



Edit book:



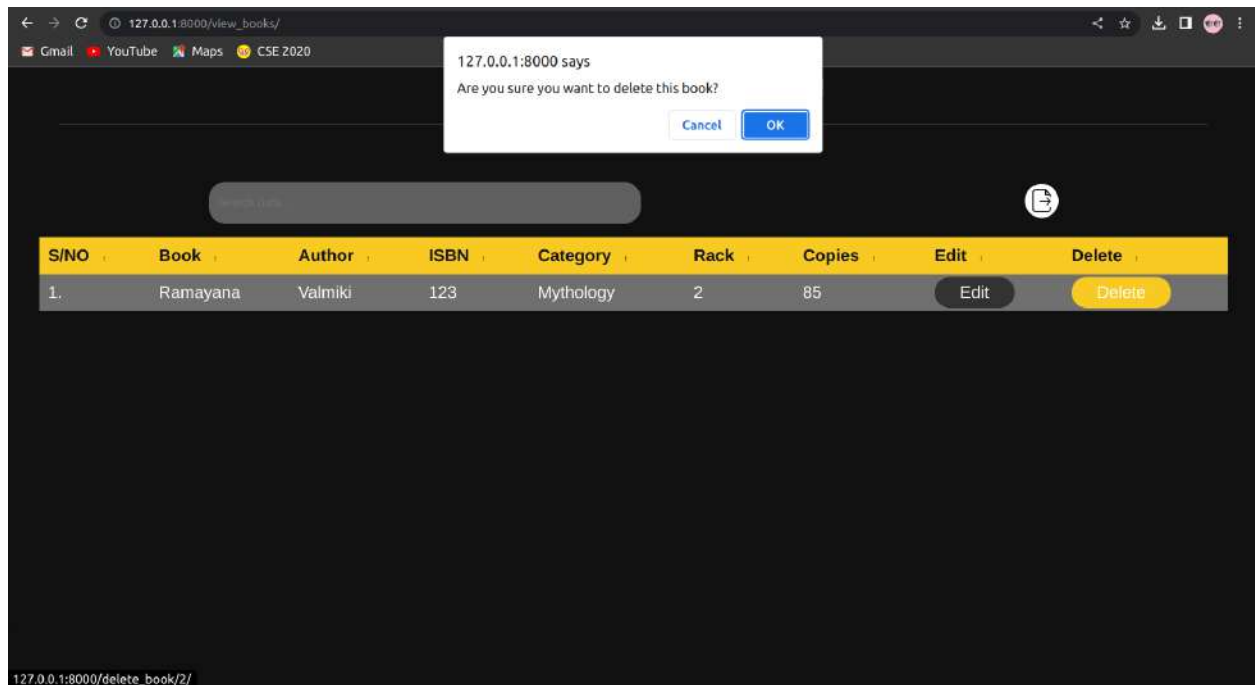
Clerk lands in this page after clicking edit book:



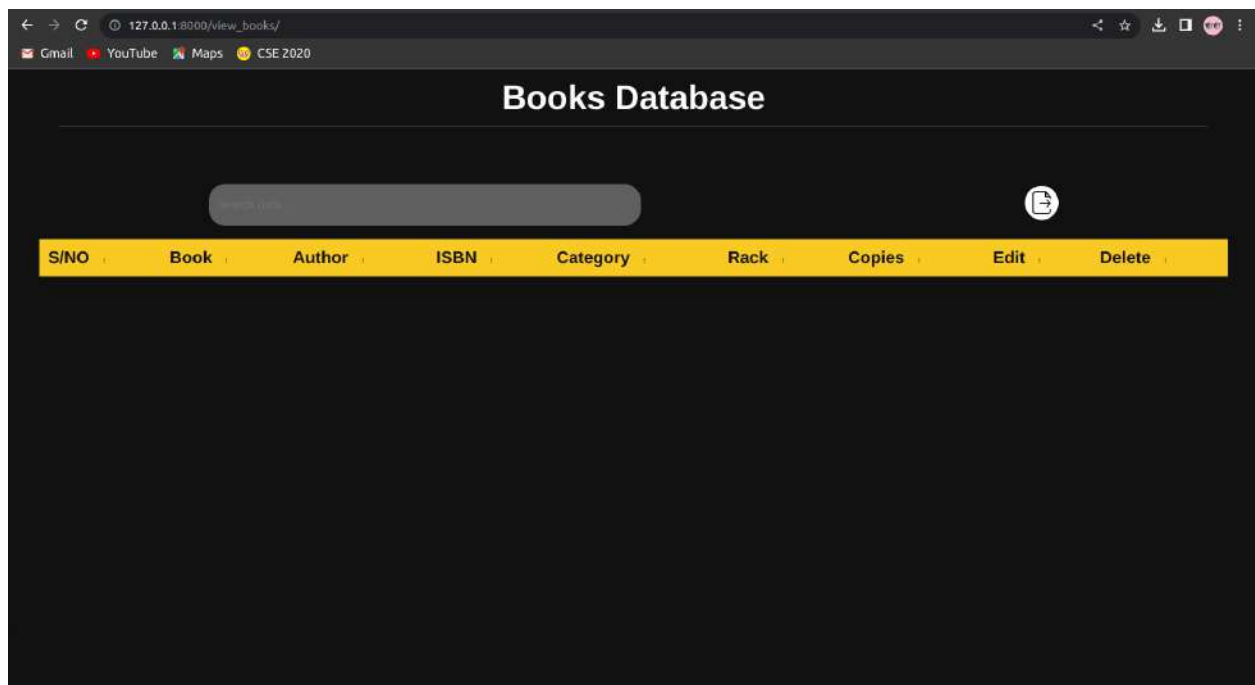
Clicking Update book:



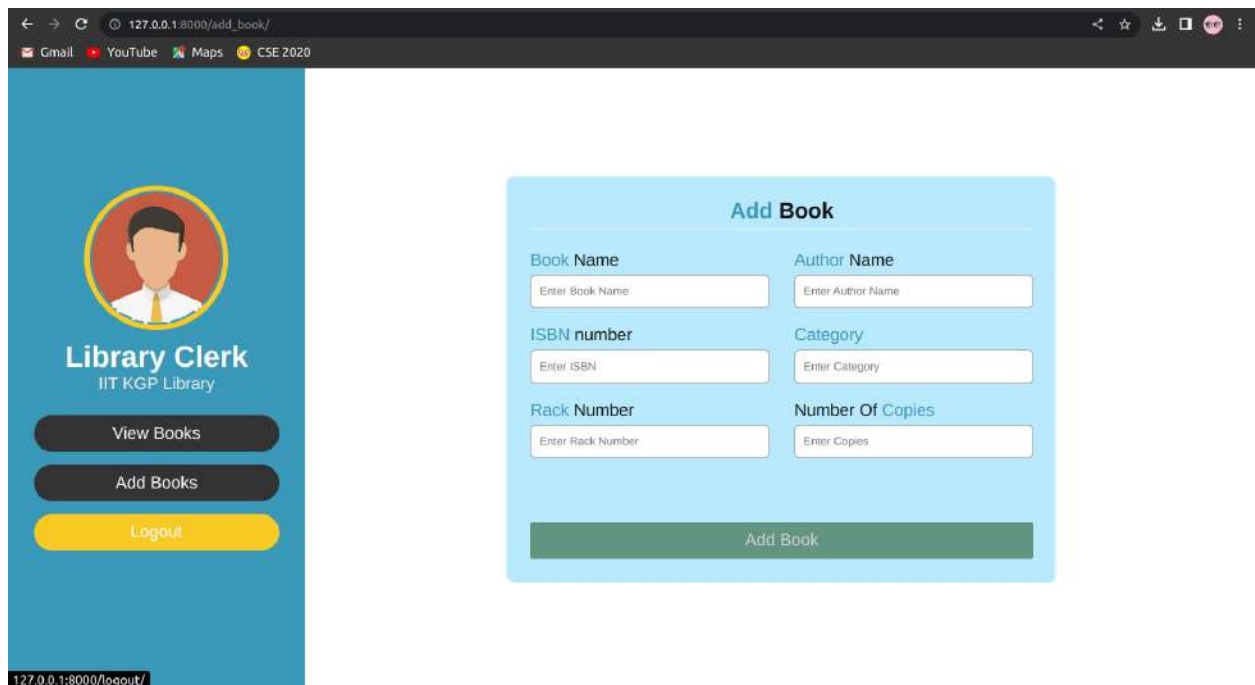
Delete Book:



Book is deleted:

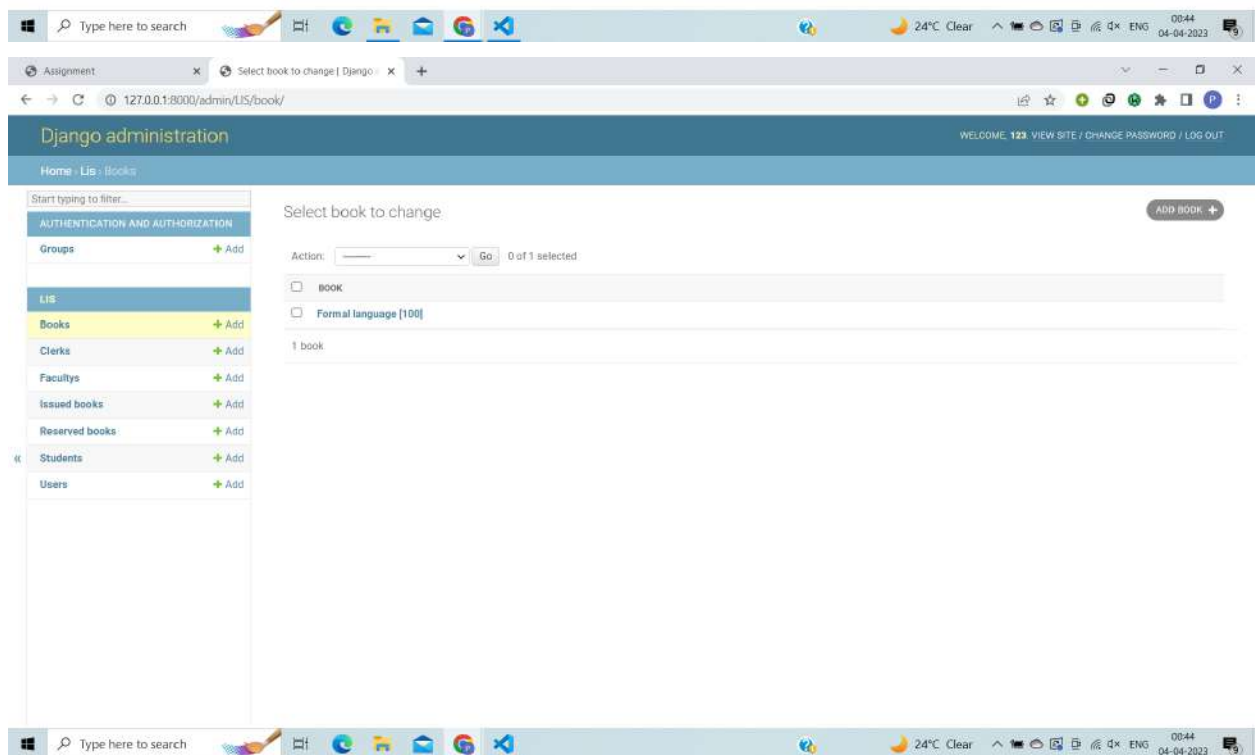
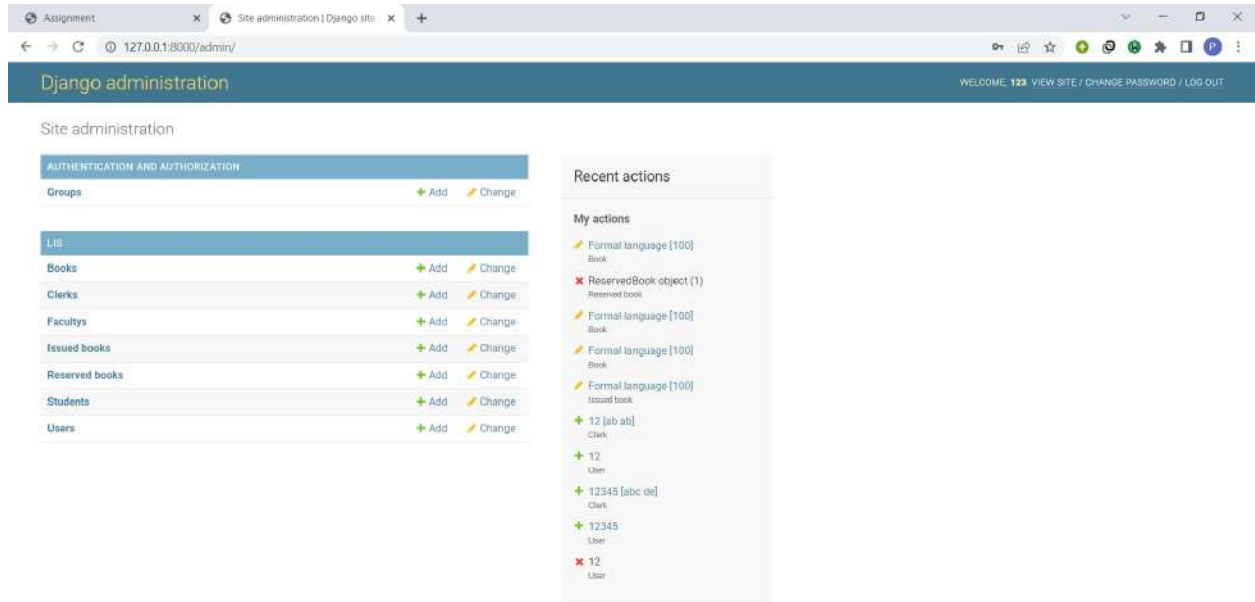


Clerk Logout:



ADMIN:

For admin default django administration page is used:



Django administration interface showing the 'Change book' form for 'Formal language [100]'. The left sidebar lists navigation options: AUTHENTICATION AND AUTHORIZATION, LIS (selected), Books, Clerks, Faculty, Issued books, Reserved books, Students, and Users. The main form fields are: Name (Formal language), Author (abc), isbn (100), Category (CS), Rack no (20), Copies (8), and Copies issued (4). Buttons at the bottom include Delete, Save and add another, Save and continue editing, and SAVE. A HISTORY button is also present.

Django administration interface showing the 'Select clerk to change' form. The left sidebar lists navigation options: AUTHENTICATION AND AUTHORIZATION, LIS (selected), Books, Clerks, Faculty, Issued books, Reserved books, Students, and Users. The main form shows a list of clerks: CLERK, 12 [ab ab], and 12345 [abc de]. The bottom status bar indicates '2 clerks'.

Assignment x 12345 [abc de] | Change clerk | x +

127.0.0.1:8000/admin/LIS/clerk/2/change/

Django administration

WELCOME, 123. VIEW SITE / CHANGE PASSWORD / LOG OUT

Home | LIS | Clerks | 12345 [abc de]

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups [+ Add](#)

LIS

Books [+ Add](#)

Clerks [+ Add](#)

Facultys [+ Add](#)

Issued books [+ Add](#)

Reserved books [+ Add](#)

Students [+ Add](#)

Users [+ Add](#)

Change clerk

12345 [abc de] [HISTORY](#)

User: 12345 [✎](#) [+](#) [-](#)

First name: abc

Last name: de

Insti id: 12345

Phone: 1234567890

[Delete](#) [Save and add another](#) [Save and continue editing](#) [SAVE](#)

Type here to search

24°C Clear 00:45 04-04-2023

Assignment x ReservedBook object (3) | Chang x +

127.0.0.1:8000/admin/LIS/reservedbook/3/change/

Django administration

WELCOME, 123. VIEW SITE / CHANGE PASSWORD / LOG OUT

Home | LIS | Reserved books | ReservedBook object (3)

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups [+ Add](#)

LIS

Books [+ Add](#)

Clerks [+ Add](#)

Facultys [+ Add](#)

Issued books [+ Add](#)

Reserved books [+ Add](#)

Students [+ Add](#)

Users [+ Add](#)

Change reserved book

ReservedBook object (3) [HISTORY](#)

Insti id: 21CS30035

Name: Formal language

Author: abc

Category: CS

Isbn: 100

Available date: 2023-04-04 Today [📅](#)

Note: You are 5.5 hours ahead of server time.

[Delete](#) [Save and add another](#) [Save and continue editing](#) [SAVE](#)

Type here to search

24°C Clear 00:45 04-04-2023

The screenshot displays the Django administration interface for a library system. The left sidebar contains a list of models: AUTHENTICATION AND AUTHORIZATION, Groups, LIS, Books, Clerks, Facultys, Issued books, Reserved books, Students (highlighted), and Users. The main content area is titled 'Select student to change' and shows a table of students. The table has columns for a selection checkbox, student ID, name, and department. Two students are listed: 21CS30035 [Paramananda Bhaskar] [CSE] [RG] and 21CS30019 [Sai malikarjun Galipelli] [CS] [UG]. The page title is 'Django administration' and the breadcrumb is 'Home > LIS > Students'.

Assignment x 21CS30019 [Sai malikarjun Galipelli] x +

127.0.0.1:8000/admin/LIS/student/1/change/

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups + Add

LIS:

Books + Add

Clerks + Add

Faculty's + Add

Issued books + Add

Reserved books + Add

Students + Add

Users + Add

Change student

21CS30019 [Sai malikarjun Galipelli] [CS] [UG] HISTORY

User: 21CS30019

First name: Sai malikarjun

Last name: Galipelli

Department: CS

Insti id: 21CS30019

Category: UG

Phone: 08247211498

Fine: 0

Books issued: 0

Book limit: 2

Delete Save and add another Save and continue editing SAVE

Assignment x Select user to change [Django] x +

127.0.0.1:8000/admin/LIS/user/

Django administration

Home LIS Users

WELCOME, 123 VIEW SITE / CHANGE PASSWORD / LOG OUT

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups + Add

LIS:

Books + Add

Clerks + Add

Faculty's + Add

Issued books + Add

Reserved books + Add

Students + Add

Users + Add

Select user to change

ADD USER +

Search

Action: Go 0 of 5 selected

<input type="checkbox"/>	INSTI ID	FIRST NAME	LAST NAME	EMAIL	STAFF STATUS
<input type="checkbox"/>	12			12@12.com	
<input type="checkbox"/>	123			123@gmail.com	
<input type="checkbox"/>	12345			12@gmail.com	
<input type="checkbox"/>	21CS30019	Sai malikarjun	Galipelli	ravindar3350@gmail.com	
<input type="checkbox"/>	21CS30035	Paramananda	Bhaskar	mmahaprobu@gmail.com	

5 users

FILTER

By staff status

All

Yes

No

By superuser status

All

Yes

No

By active

All

Yes

No