LMS GROUP-2 Find Reoma

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The Library Management System

THE TEAM

- 1. 19z215 Gunaal R
- 2. 19z218 Johanna Smriti
- 3. 19z225 Keerthna M
- 4. 19z237 Balasubramanian S
- 5. 19z246 Sri Raja Vignesh S
- 6. 19z259 Vikneshwar A





Introduction

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A college library management is a project that manages and stores books information electronically according to students' needs. The system helps both students and library managers to keep a constant track of all the books available in the library.

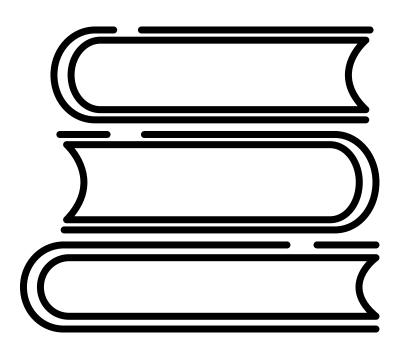
Problem Statement

05.

To update the manual library system into an internet-based application. This application can be used both by the students anf the faculty of the Computer Science department of PSG College of Technology.



Objective



The application objective is to reduce the manual work of the librarian to a great extend, allowing smooth flow of library activities by removing chanced of errors in details

For example,

It becomes necessary for colleges to keep a continuous check on the books issued and returned and even calculate fines. This task if carried out manually will be tedious and includes chances of mistakes. These errors are avoided by allowing the system to calculate fine.

Requirements Gathering

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MODULES

Admin Portal

Dashboard

borrow portal

return portal

view books

All books

Books issued

Books returned

Student Portal

Login

Borrow history

Return history

This module contains all the functionalities an admin can perform in the application. It's further divided into six modules as listed below

Dashboard

This module allows the admin to view,

- 1. number of books in the database
- 2. number of books issued
- 3. number of books not returned past the due date

Also has easy access to the modules borrow and return

Borrow

This module allows the Admin to issue a book just by entering, **Student roll number**, **Book Id**After pressing **ADD ENTRY**, the admin can view details of the book after which the admin can confirm the entry.

Return

This module allows the Admin to return a book just by entering, Student roll number This will result in displaying the list of books issued by the student.

After which the admin can check for a fine, which is calculated with respect to the due date and return date.

On pressing the button **Return**, the book return process is completed and the same is reflected in the database.

10.

VIEW BOOKS

This module allows to user to view the details of the books in three different ways. It also has the functionality of searching a book with respect to,

Book ID, Title, Author name

Books

This module allows the admin to view all the books available in the database.

The details displayed are: Book ID, Title, Author name

Books issued

This module allows the Admin to view all the books issued currently

The details displayed are:
Book ID, Roll number, Title,
Issue date, Due date

Books returned

This module allows the Admin to view all the books returned.

The details displayed are:
Book ID, Roll number,
Title, Issue date, Return
date, Fine paid

This module contains all the functionalities a student can perform in the application. Its further divided into three modules as listed below

Login

This module allows the student to log in.

The student uses his/her roll number as username and password to login

Borrow history

This module allows the student to view the details of the books thay issued currently The details displayed are:

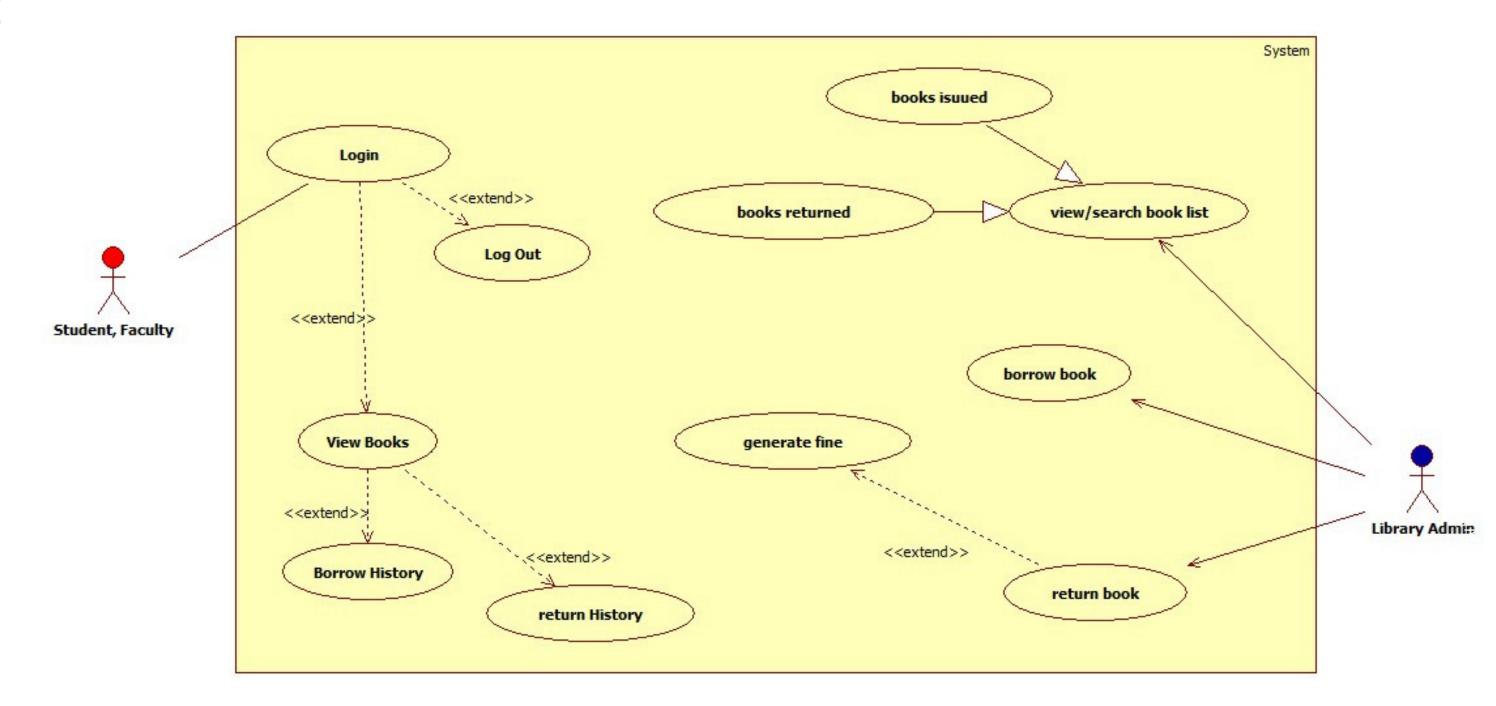
Book ID, Book Titile, Author name, Issue date, Due date

Return history

This module allows the student to view the details of the books thay issued currently
The details displayed are:
Book ID, Book Title, Author name, Issue date,
Return date, Fine Paid

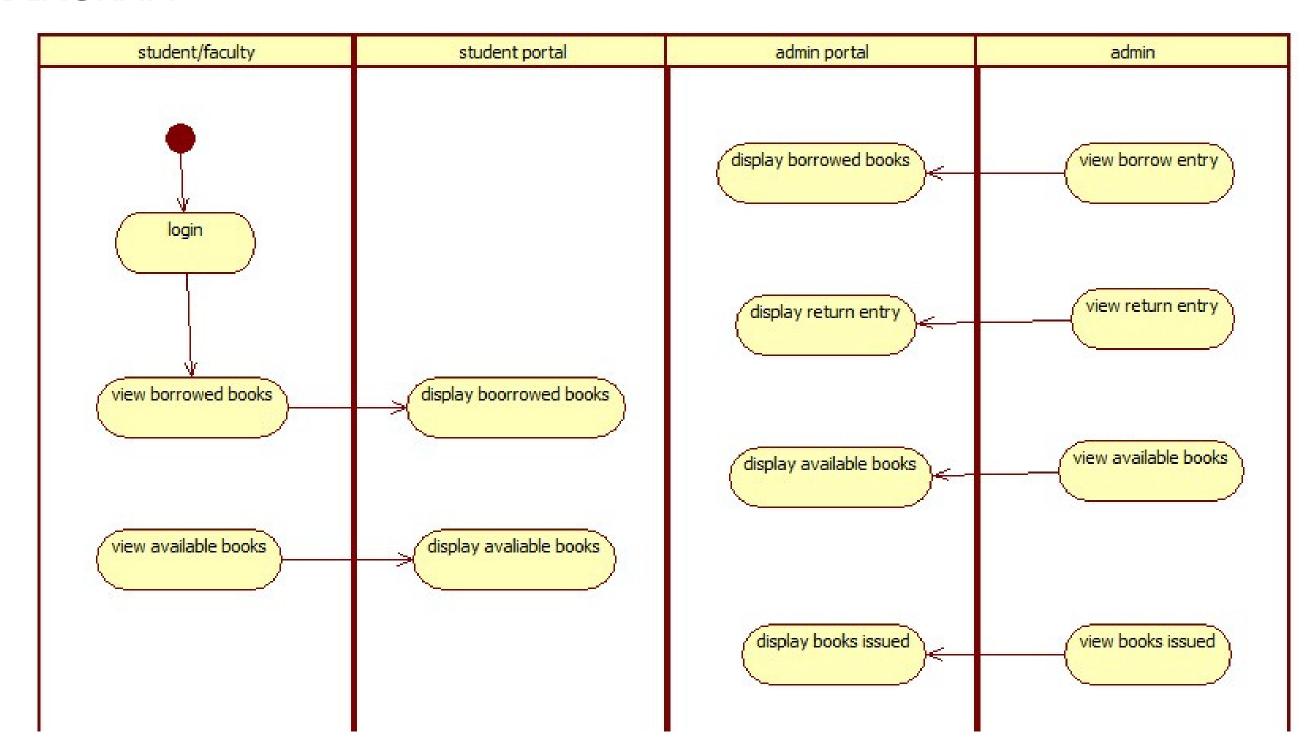
Design

USE CASE



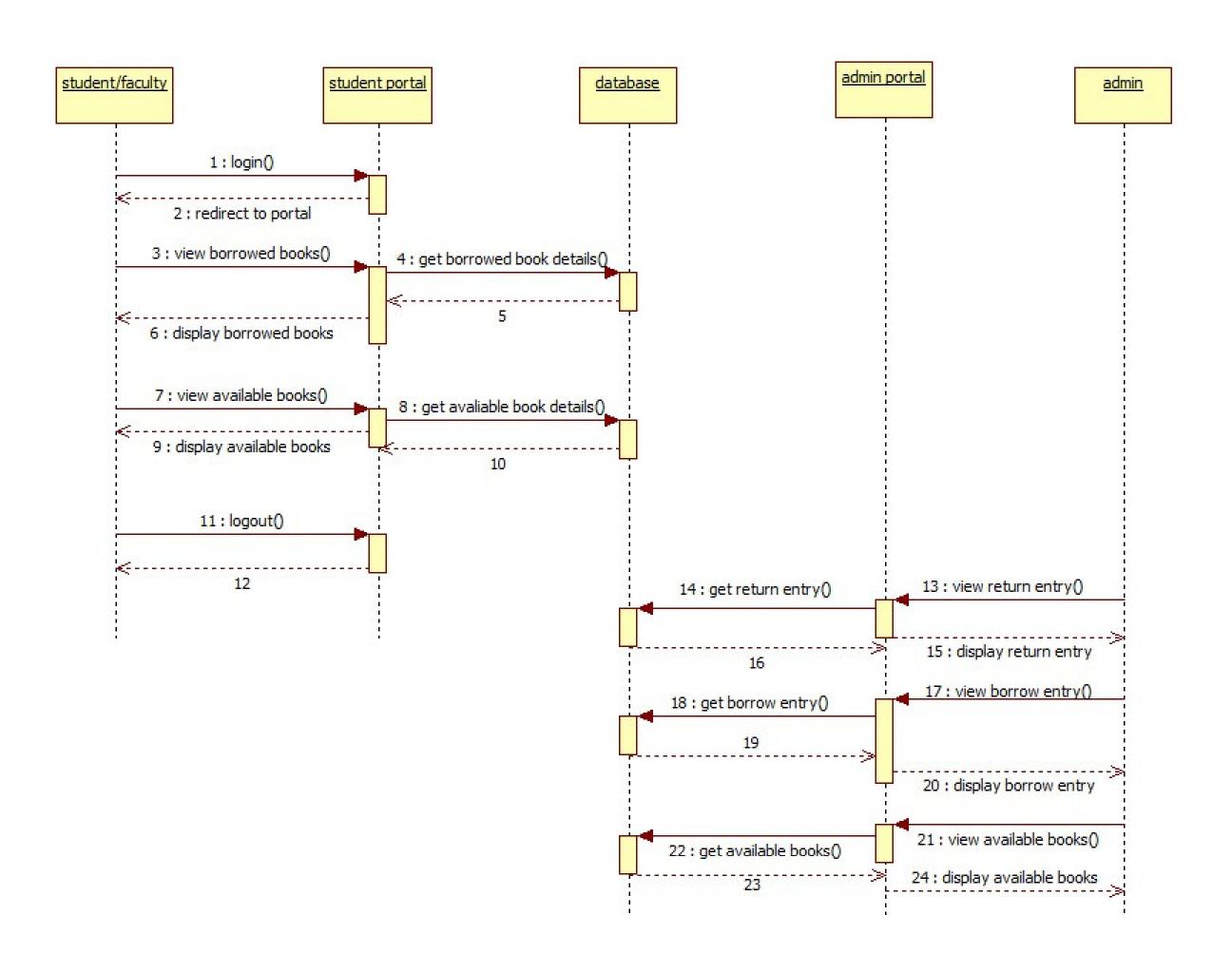
Design

ACTIVITY DIAGRAM

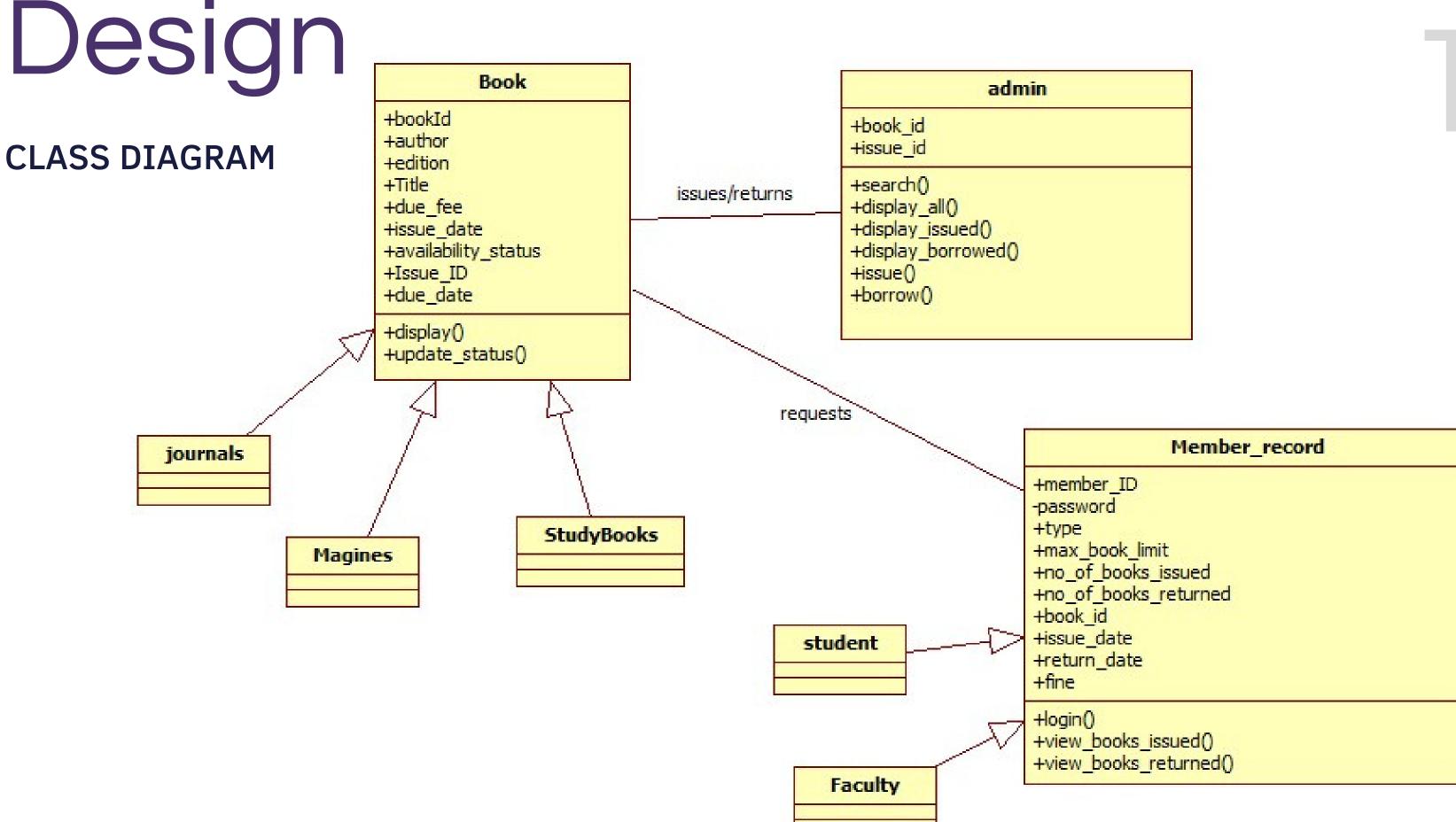


Design

SEQUENCE DIAGRAM



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System requirements

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Hardware

Processor: Pentium(R)

Dual-core CPU Hard Disk:

40GB

RAM: 256 MB or more

Software

Front-end framework: Flutter

Language: Dart

Data processing language:

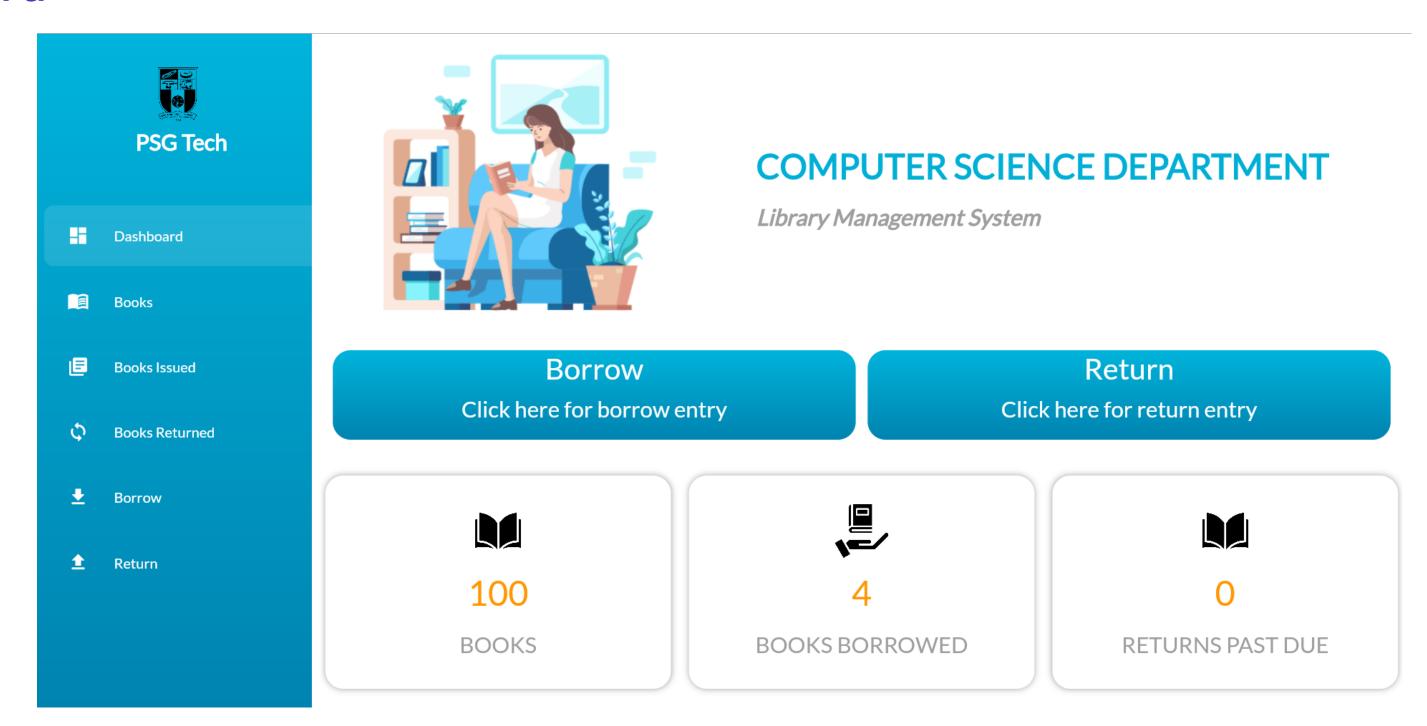
Python

Database: Firebase

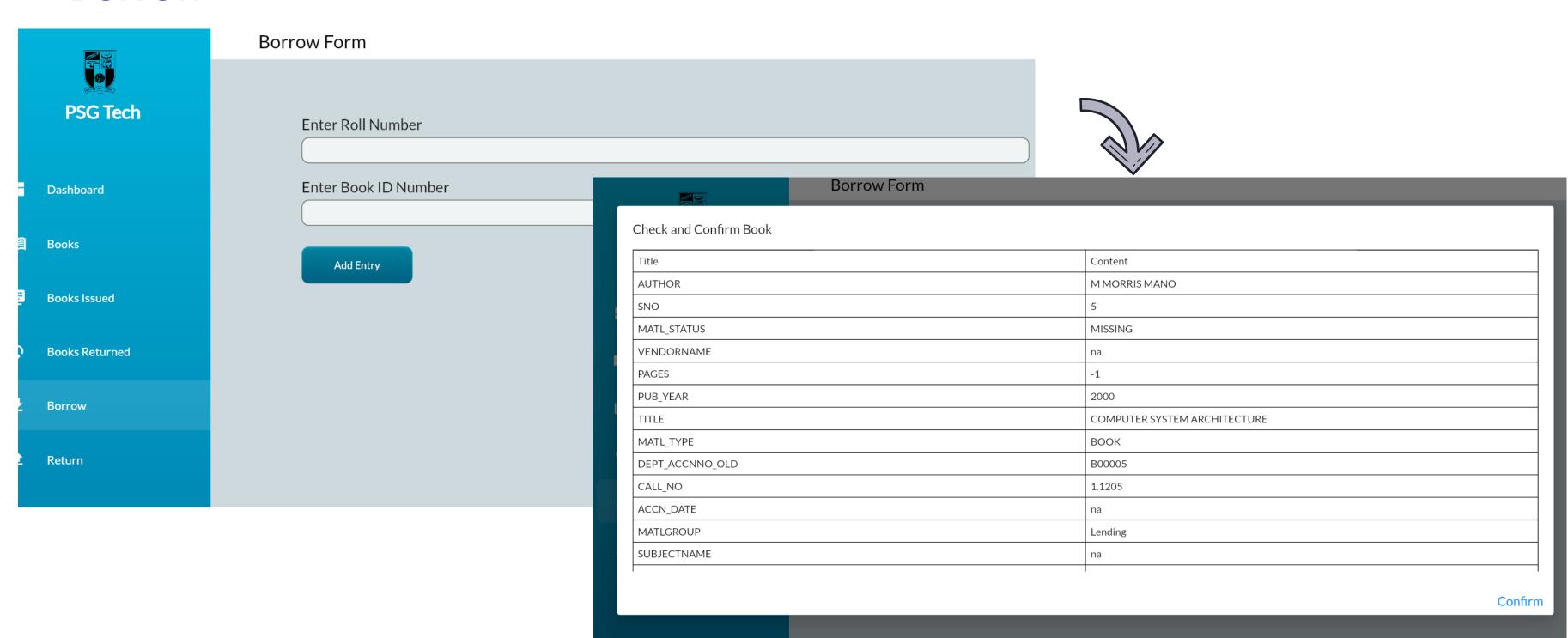
7. Contribution of the TEAM

- 1. 19z215 Dashboard in admin portal
- 2. 19z218 Log in and Borrow history section in student portal
- 3. 19z225 Menu bar and return history section in student portal
- 4. 19z237 Borrow and Return section in admin portal
- 5. 19z246 Database seeding and in app integration
- 6. 19z259 Books, Issued, Return tables in admin portal

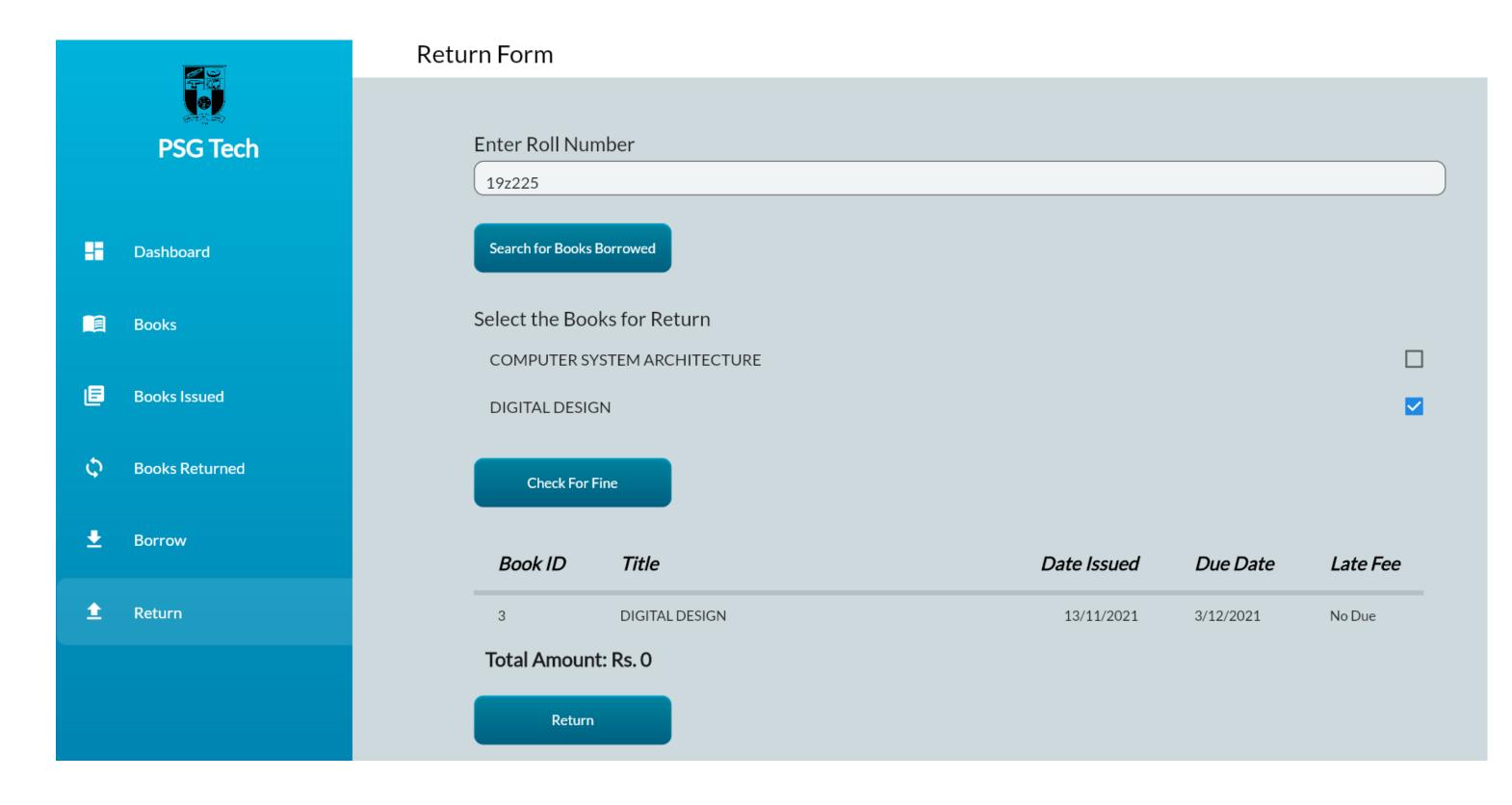
Dashboard



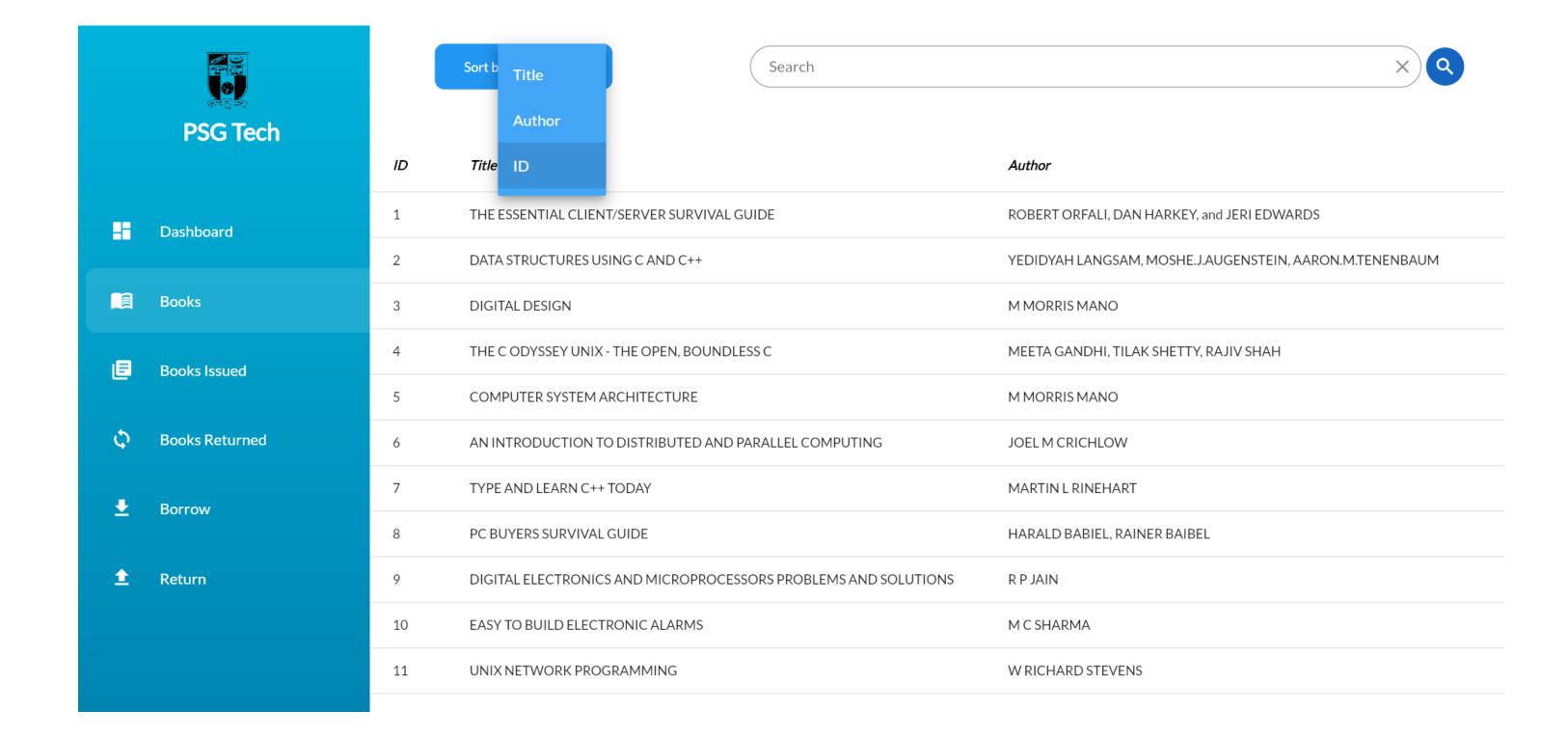
Borrow



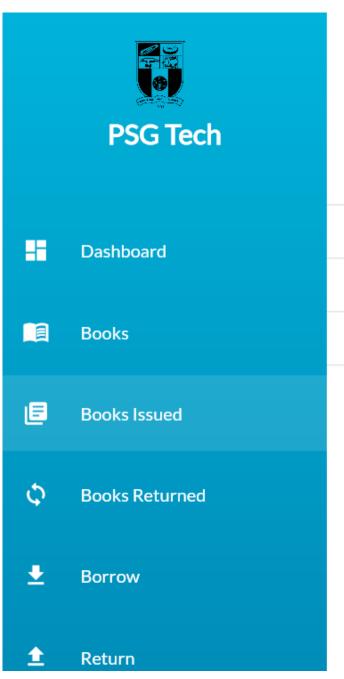
Return



Books



Books Issued



Sort by Issue 🛈

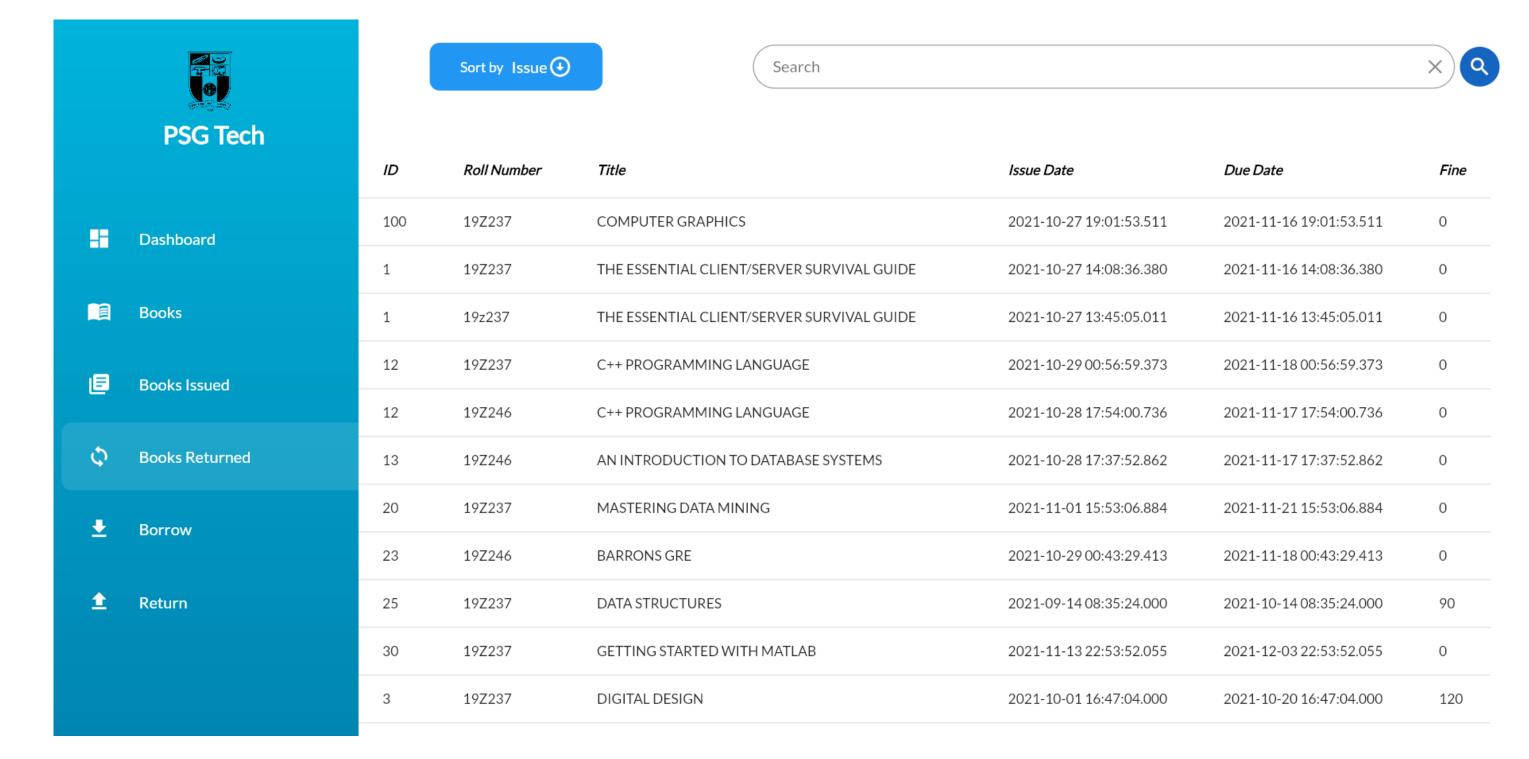
Search

ch × Q

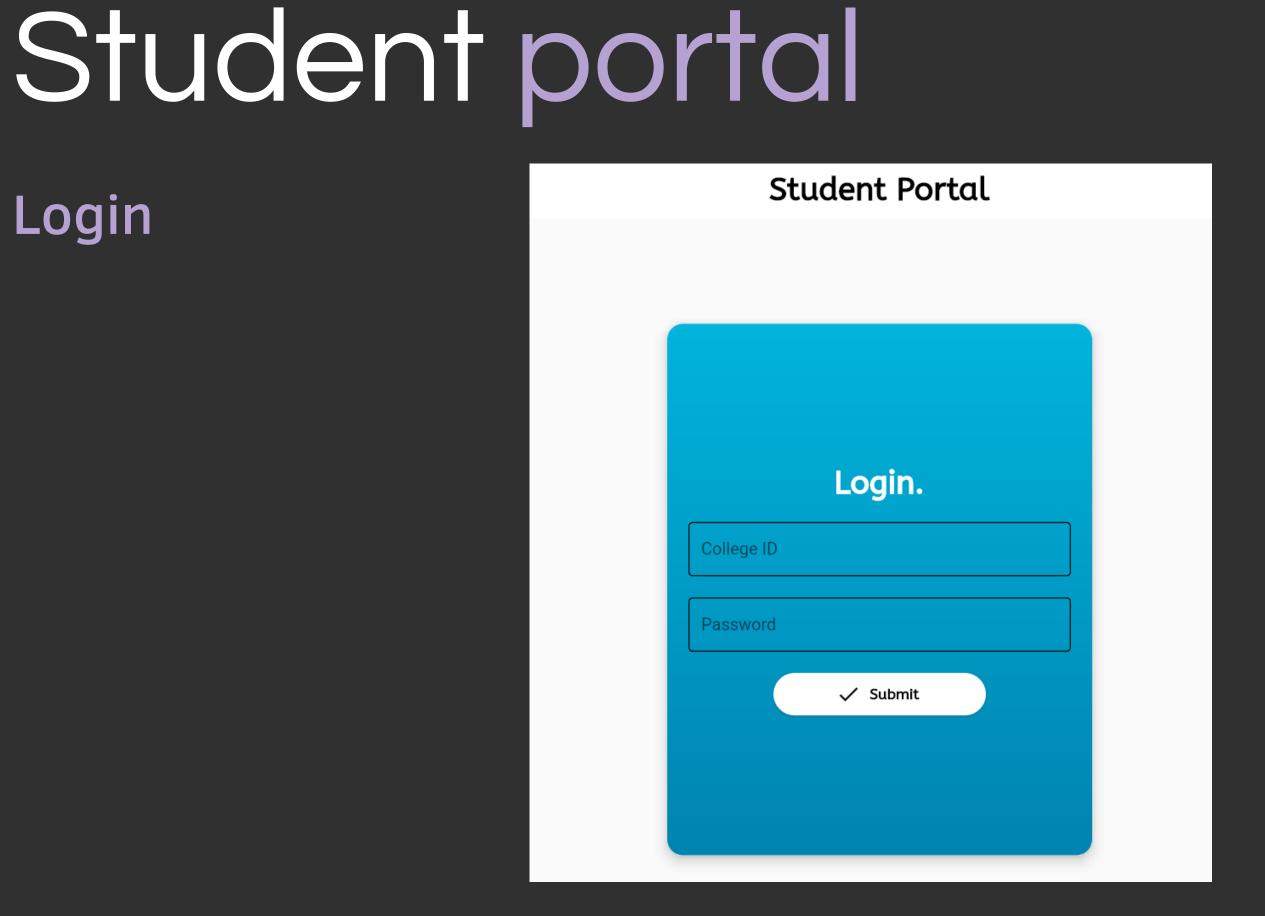
ID	Roll Number	Title	Issue Date	Due Date
12	19Z246	C++ PROGRAMMING LANGUAGE	2021-10-29 00:57:38.766	2021-11-18 00:57:38.766
22	19Z289	COMPUTER ORGANISATION	2021-10-29 09:13:24.895	2021-11-18 09:13:24.895
45	19Z246	CC:MAIL PLAIN AND SIMPLE	2021-10-29 00:51:29.319	2021-11-18 00:51:29.319
5	19z225	COMPUTER SYSTEM ARCHITECTURE	2021-11-15 06:55:51.022	2021-12-05 06:55:51.022

23.

Books Returned



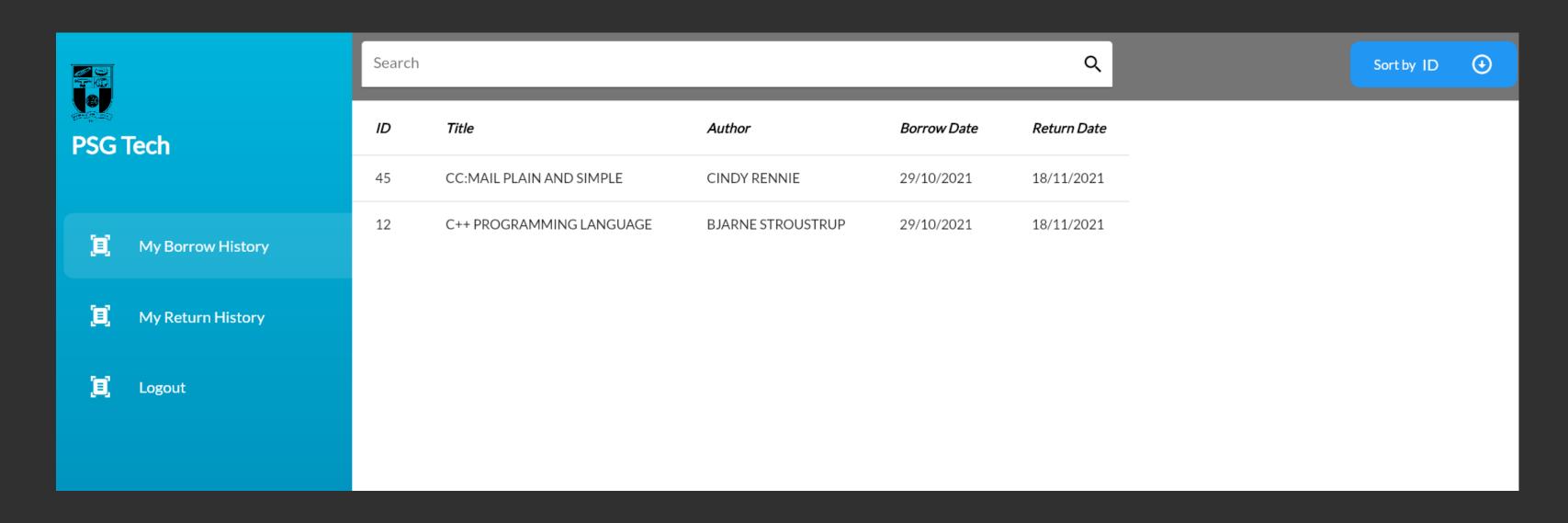
Login



25.

Student portal

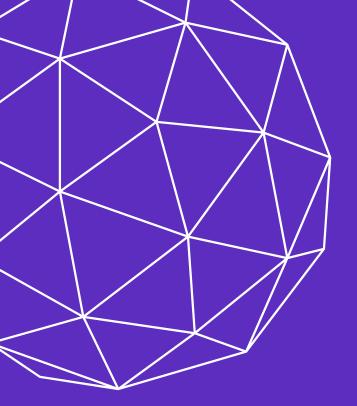
Borrow History

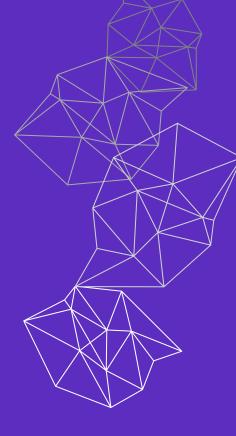


Student portal

Return History

		Search		Q		Sort by ID	⊙
PSG Tech		ID	Title	Author	Borrow Date	Return Date	Fine Paid
		100	COMPUTER GRAPHICS	ISRD GROUP	27/10/2021	16/11/2021	Rs. 0
E	My Borrow History	98	DATA COMMUNICATION AND COMPUTER NETWORKS	ISRD GROUP	28/10/2021	17/11/2021	Rs. 0
	My Borrow History	50	FUNDAMENTALS OF DIGITAL IMAGE PROCESSING	ANIL K JAIN	29/10/2021	18/11/2021	Rs. 0
[8]	My Return History	45	CC:MAIL PLAIN AND SIMPLE	CINDY RENNIE	28/10/2021	17/11/2021	Rs. 0
[]	Logout	30	GETTING STARTED WITH MATLAB	RUDRA PRATAP	13/11/2021	3/12/2021	Rs. 0
,E,		27	DATABASE SYSTEM CONCEPTS	HENRY F KORTH, ABRAHAM SILBERSCHATZ	14/11/2021	4/12/2021	Rs. 0
		25	DATA STRUCTURES	A CHITRA P T RAJAN	14/9/2021	14/10/2021	Rs. 90
		20	MASTERING DATA MINING	MICHAEL J A BERRY, GORDON S LINOFF	1/11/2021	21/11/2021	Rs. 0
		20	MASTERING DATA MINING	MICHAEL J A BERRY, GORDON S LINOFF	14/10/2021	2/11/2021	Rs. 60
		12	C++ PROGRAMMING LANGUAGE	BJARNE STROUSTRUP	29/10/2021	18/11/2021	Rs. 0
		3	DIGITAL DESIGN	M MORRIS MANO	1/10/2021	20/10/2021	Rs. 120
		1	THE ESSENTIAL CLIENT/SERVER SURVIVAL GUIDE	ROBERT ORFALI, DAN HARKEY, and JERI EDWARDS	27/10/2021	16/11/2021	Rs. 0





ThankYou

