LMS GROUP-2 Find Reoma

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The Library Management System

THE TEAM

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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.

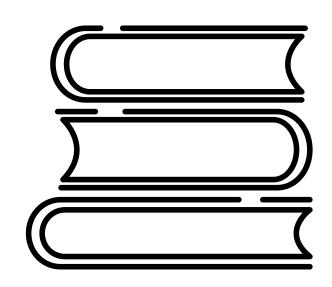
Problem Statement

In the 21st century, where everything is digitalised and automised, it is not hard to notice that a lot of libraries still stick to the traditional notebook & pen system for maintaining library records.

The *Library Management System* we've designed is an attempt to modernise the libraries, by adding a touch of automation to the library management activities like, making borrow & return entries, maintaining user information and a lists of all the books available







The primary objective of the application is to create a robust, responsive, light-weight, cross-platform software, which reduces the manual work of the librarian extensively, by smoothening the library activities eliminating room for errors in details.

Librarian

To reduce the strain in making manual entries and maintaining physical records

Student

To avoid physical presence of the student for every menial library procedure

Requirements Gathering

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MODULES

Admin Portal

Dashboard

Borrow portal

Return portal

View records

- All books
- Books issued
- Books returned

Student Portal

Login
Borrow history
Return history

This module consists of the functionalities available to the admin/librarian. It's further divided into six modules as listed below

Dashboard

This module allows the admin/librarian to view,

- 1. The total number of books available in the library
- 2. The number of books lent out
- 3. The number books to be returned, which are past their due dates

The librarian can also easily reach the borrow & return modules from this module.

Borrow

This module allows the admin/librarian to issue a book by entering the corresponding, student roll number, book Id.

After pressing ADD ENTRY, the admin can review details of the book before confirming the entry.

Return

This module allows the admin/librarian to add a return entry by specifying the corresponding, student roll number.

Once the roll number is entered the user is prompted to select the book to be returned from a list of books currently lent out to that particular student, after which the admin can check for a fine, which is calculated with respect to the due date and return date.

Finally on pressing the **Return button**, the book return process is completed and the same is reflected on to the database.

VIEW BOOK RECORDS

This functionality allows the user to view three different records namely, books, books issued, books returned.

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

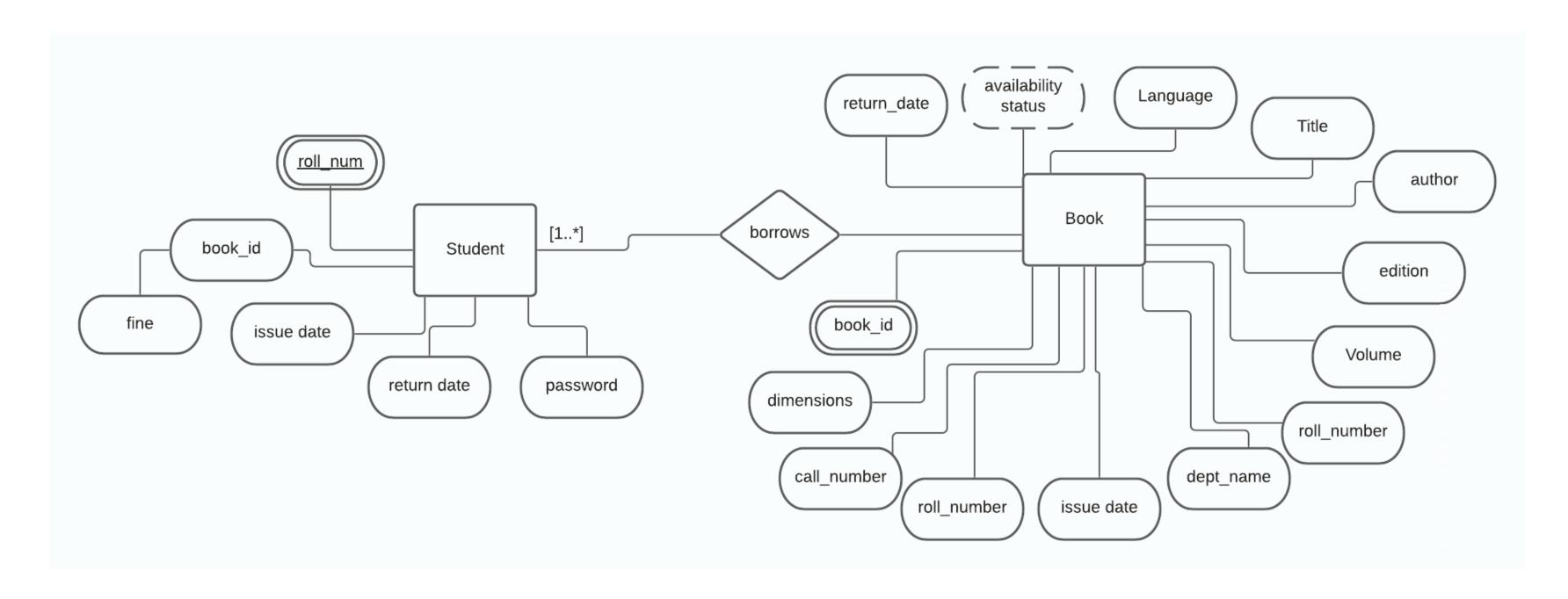
Borrow history

This module allows the student to view the details of the books they have borrowed, and not returned
The details displayed are:
Book ID, Book Title, Author name, Issue date, Due date

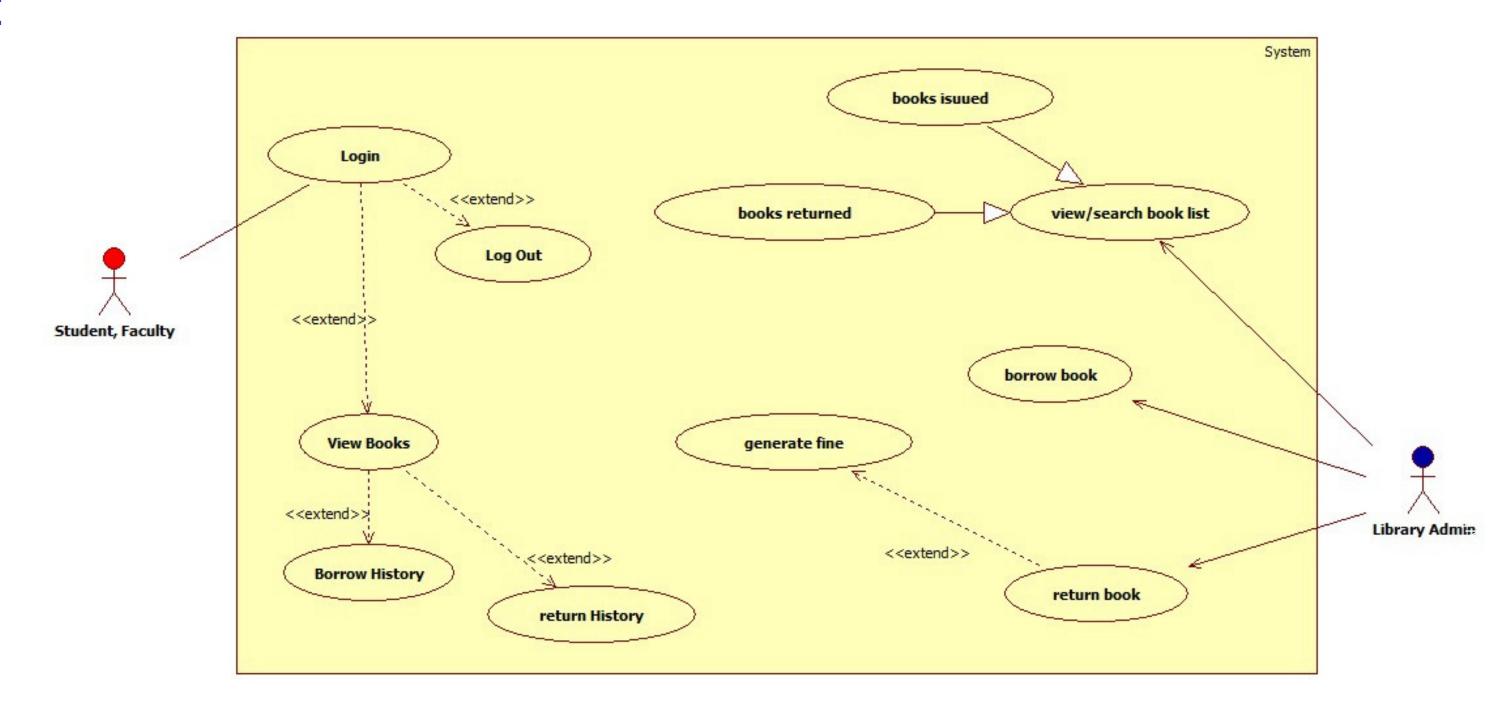
Return history

This module allows the student to view the details of the books they have returned.
The details displayed are:
Book ID, Book Title, Author name, Issue date, Return date, Fine Paid

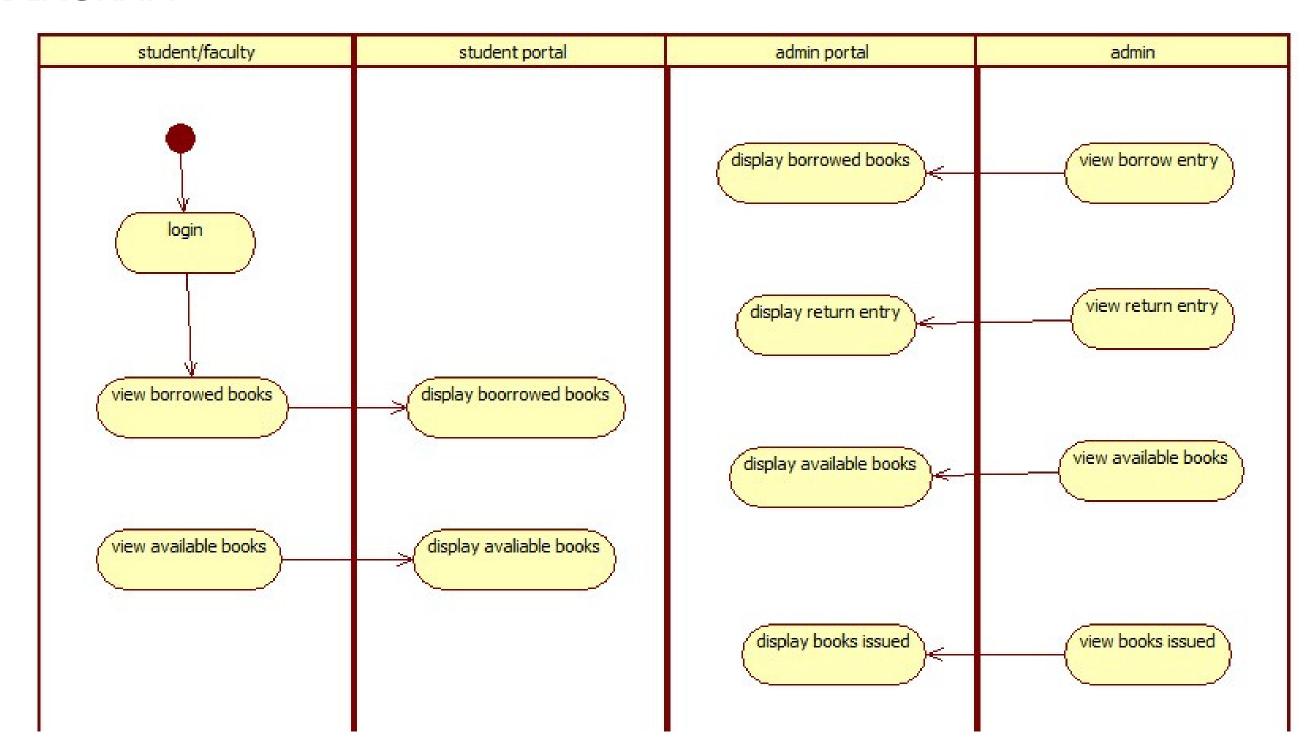
ER DIAGRAM



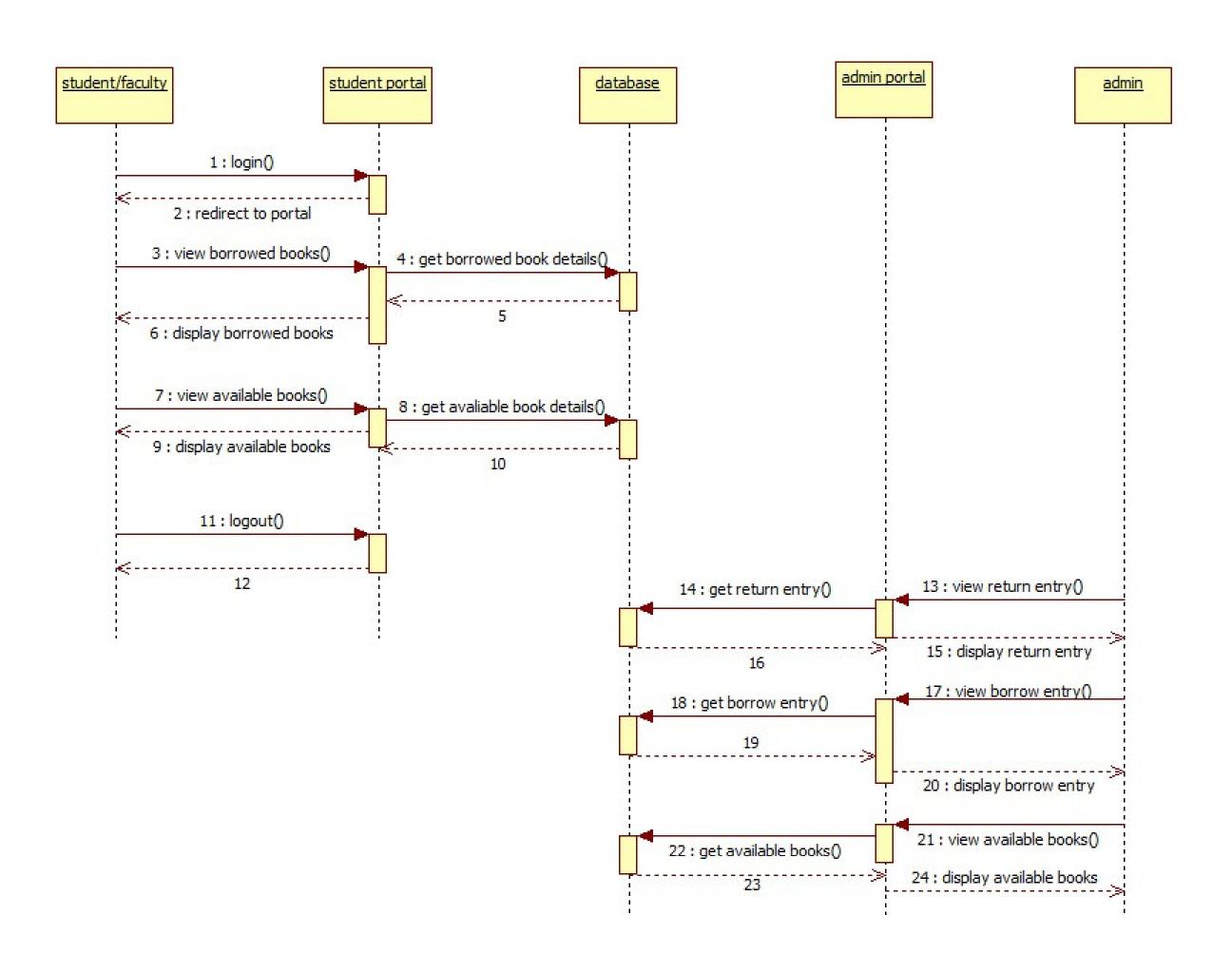
USE CASE



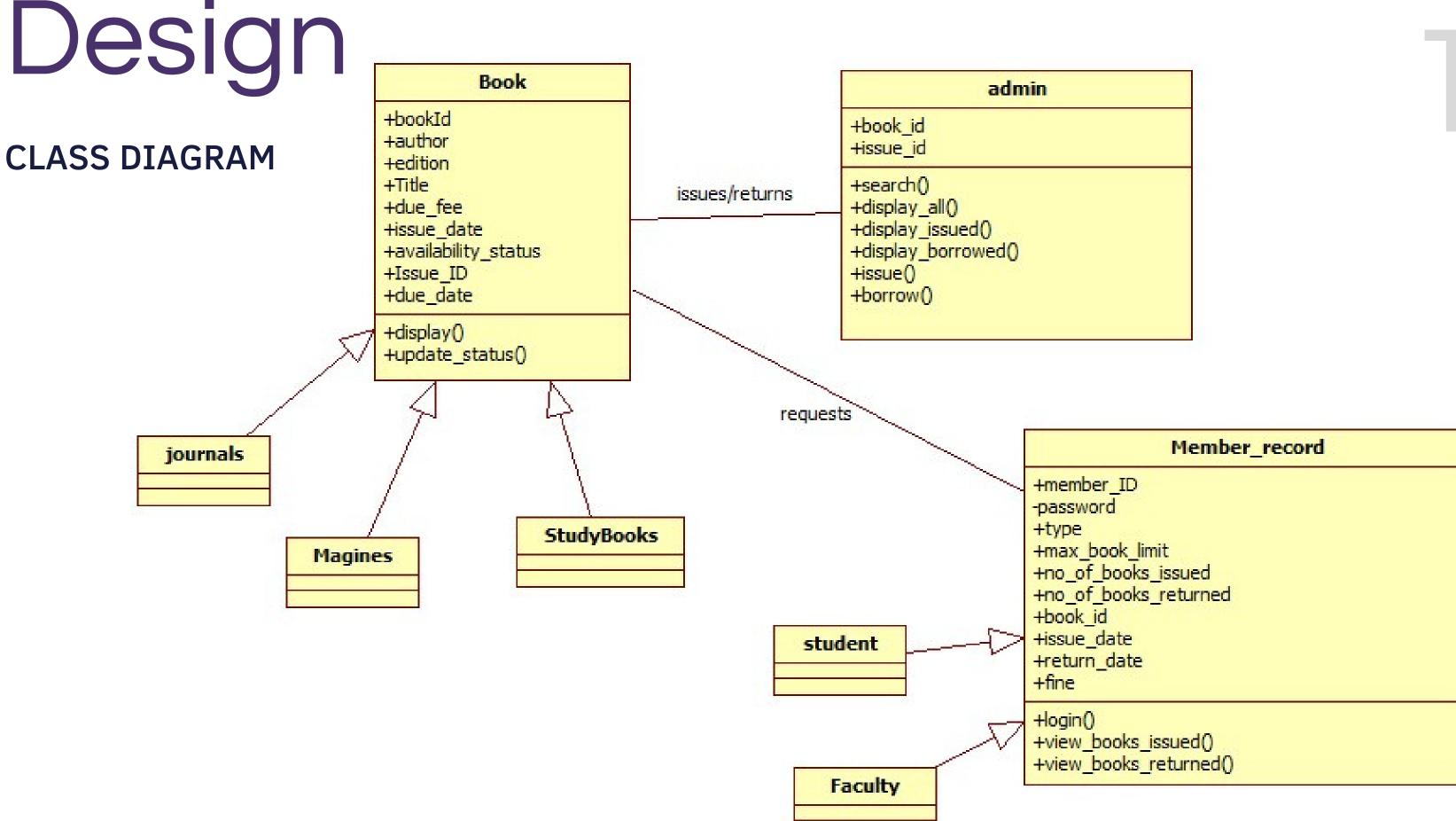
ACTIVITY DIAGRAM



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

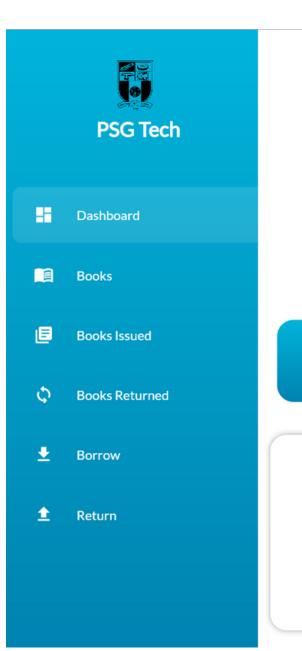
Database: Firebase

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 Firebase seeding and in app integration of DB
- 6. 19z259 Books, Issued, Return tables in admin portal

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Dashboard





COMPUTER SCIENCE DEPARTMENT

Library Management System

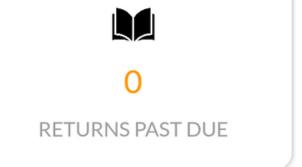
Borrow Click here for borrow entry

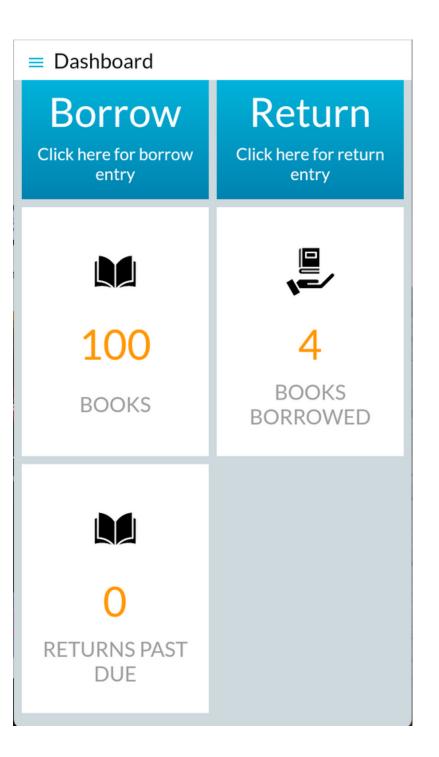
Return

Click here for return entry

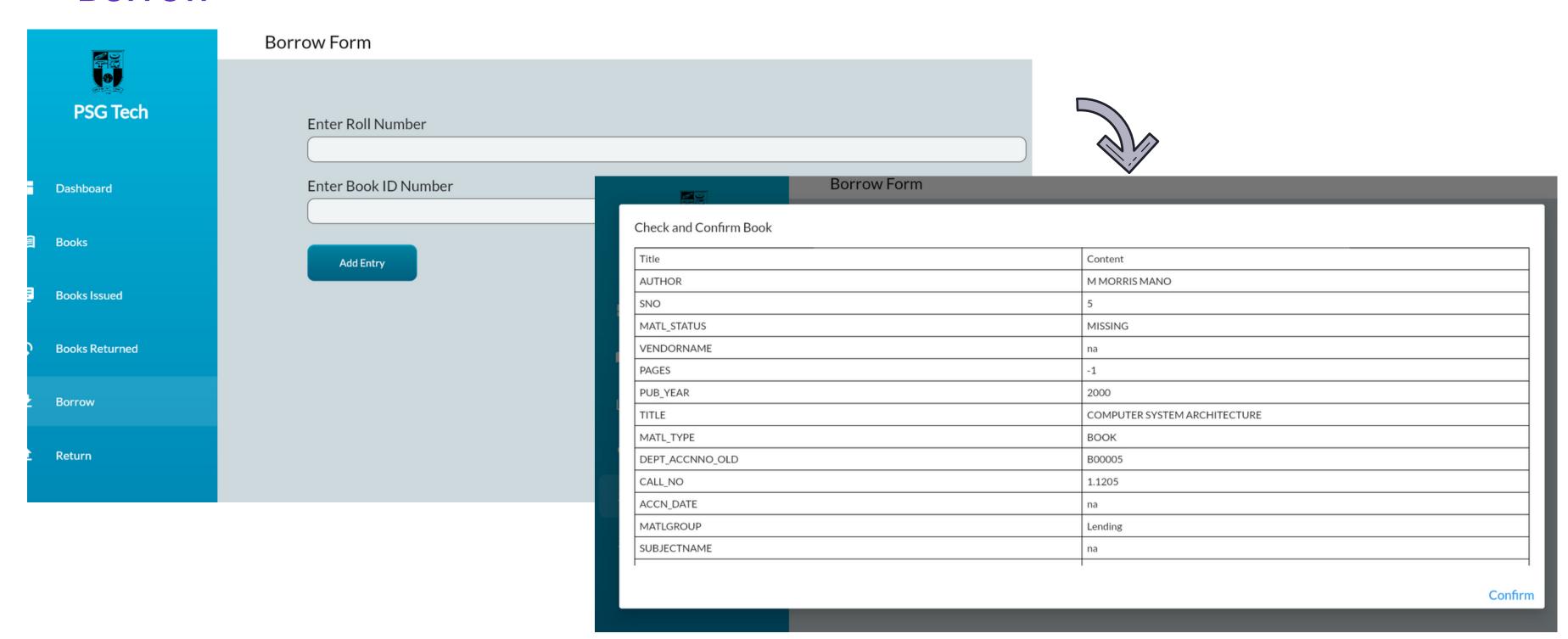






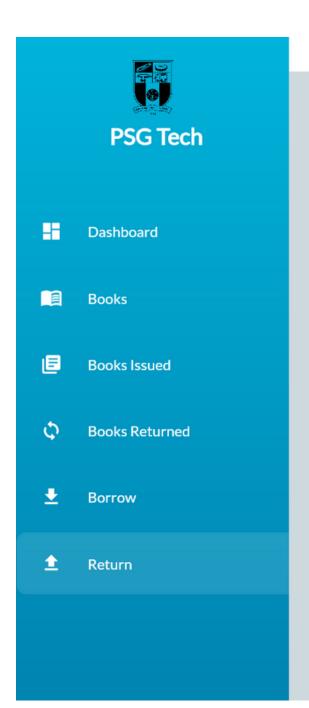


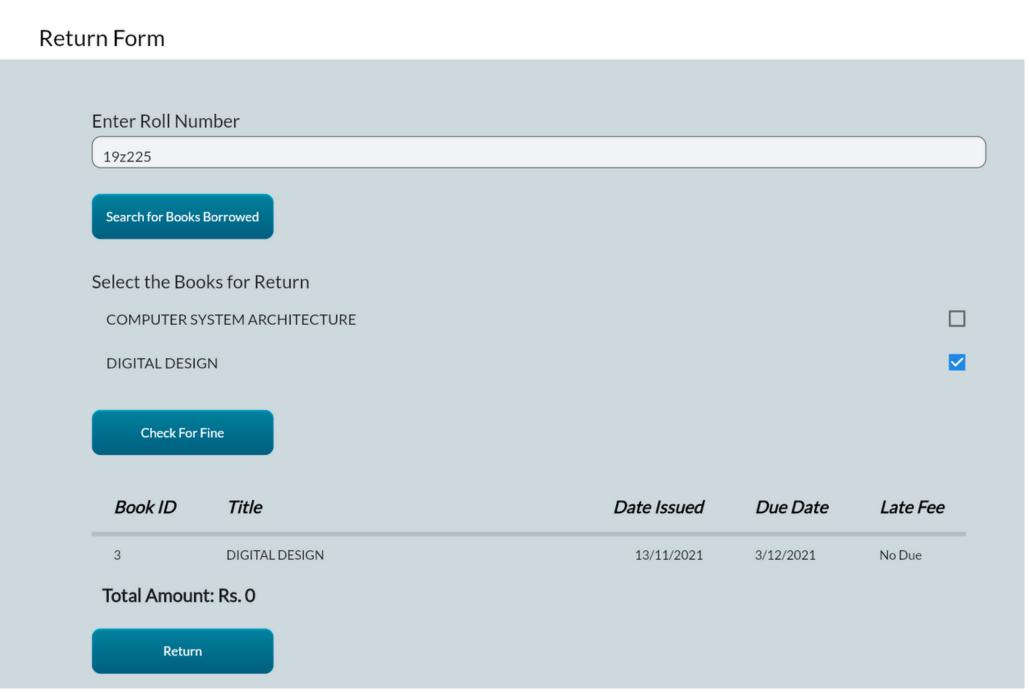
Borrow



20.

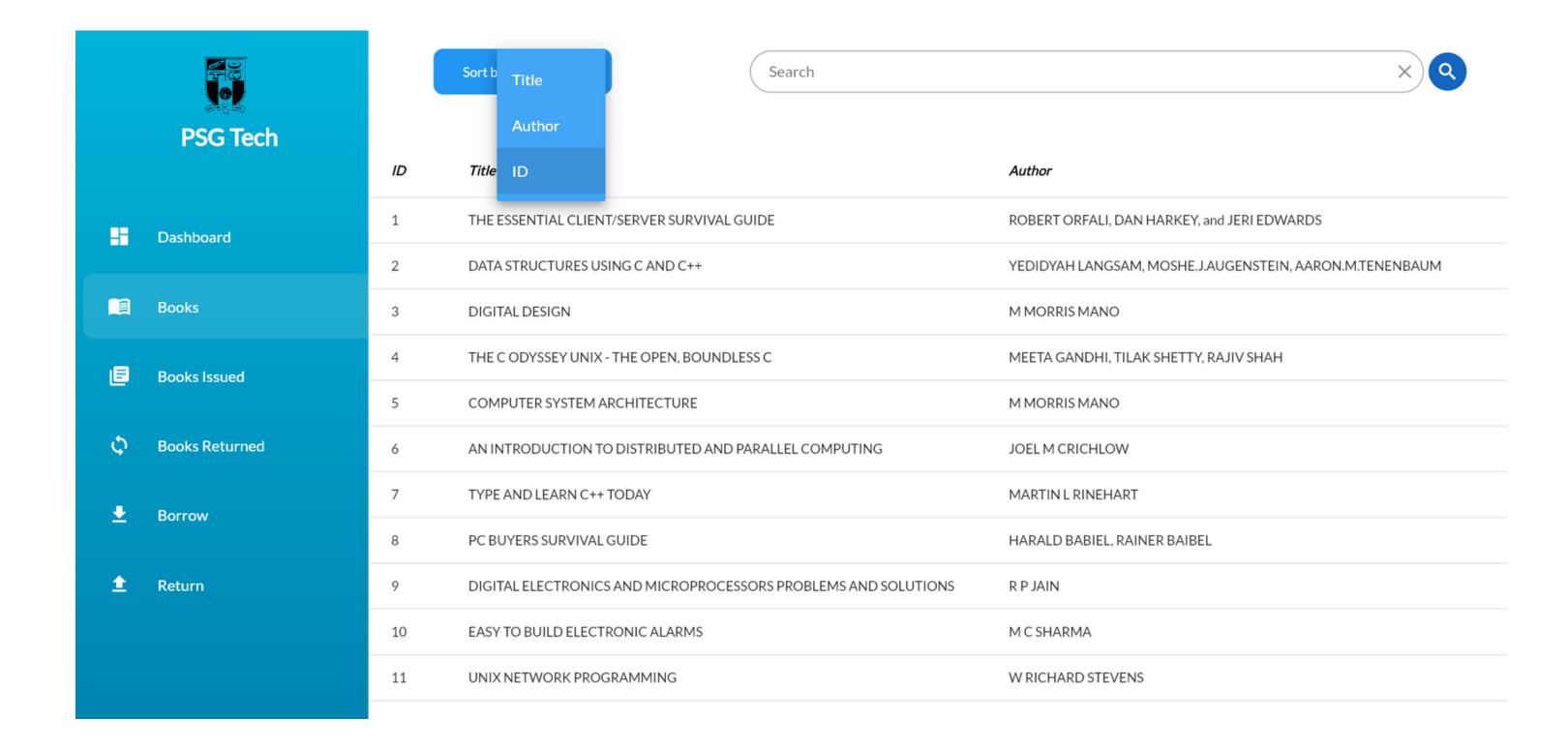
Return



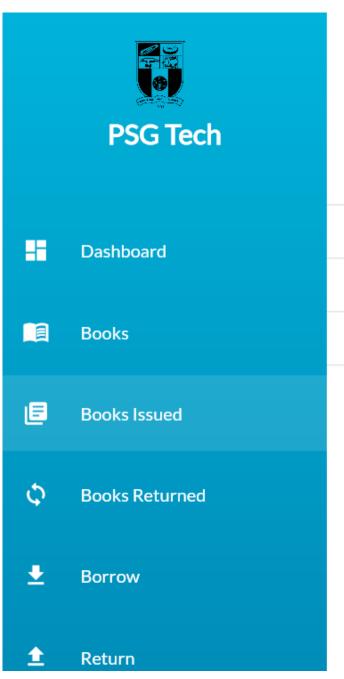


Return Fo	rm			
Enter Roll Nur	Enter Roll Number			
19z225				
Search for Books	Borrowed			
Select the Boo	ks for Return			
COMPUTER SY	\checkmark			
DIGITAL DESIG	GN .	<u>~</u>		
Check For I	-ine			
Book ID	Title	Date		
5	COMPUTER SYSTEM ARCHITECTURE	15/		
3	DIGITAL DESIGN	13/		
Total Amoun	t: Rs. 0			
Return				

Books



Books Issued



Sort by Issue 🛈

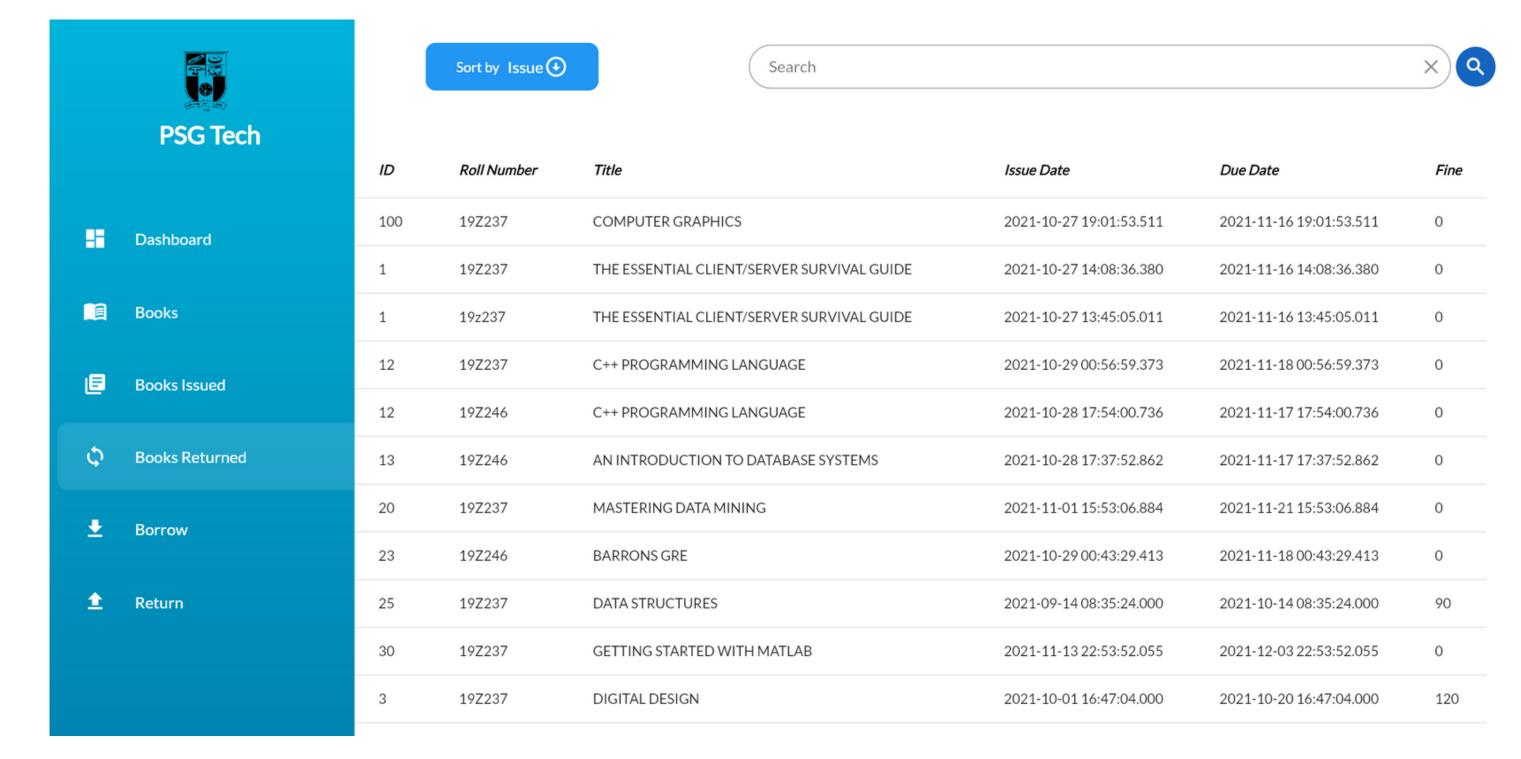
Search

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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

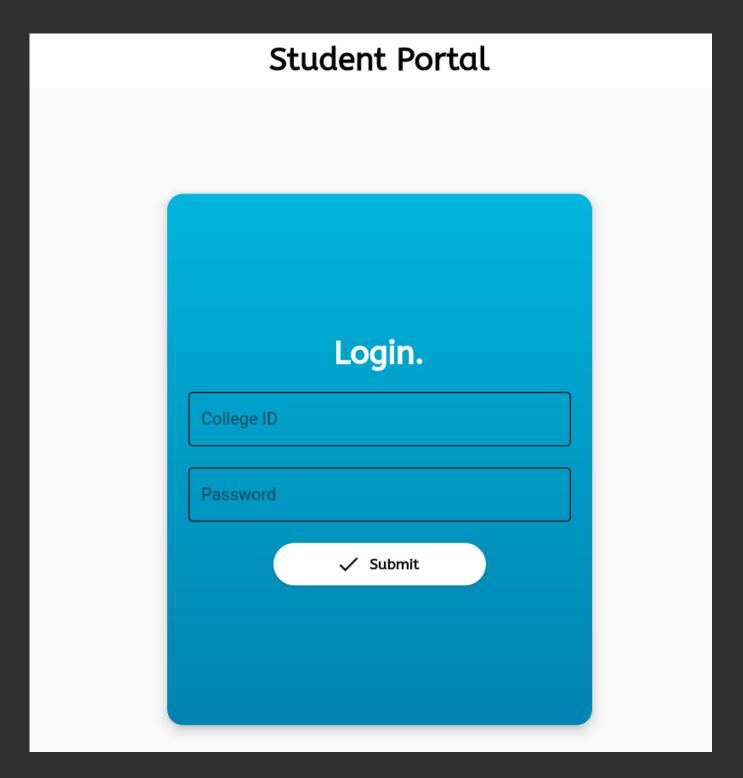
23.

Books Returned



Student portal

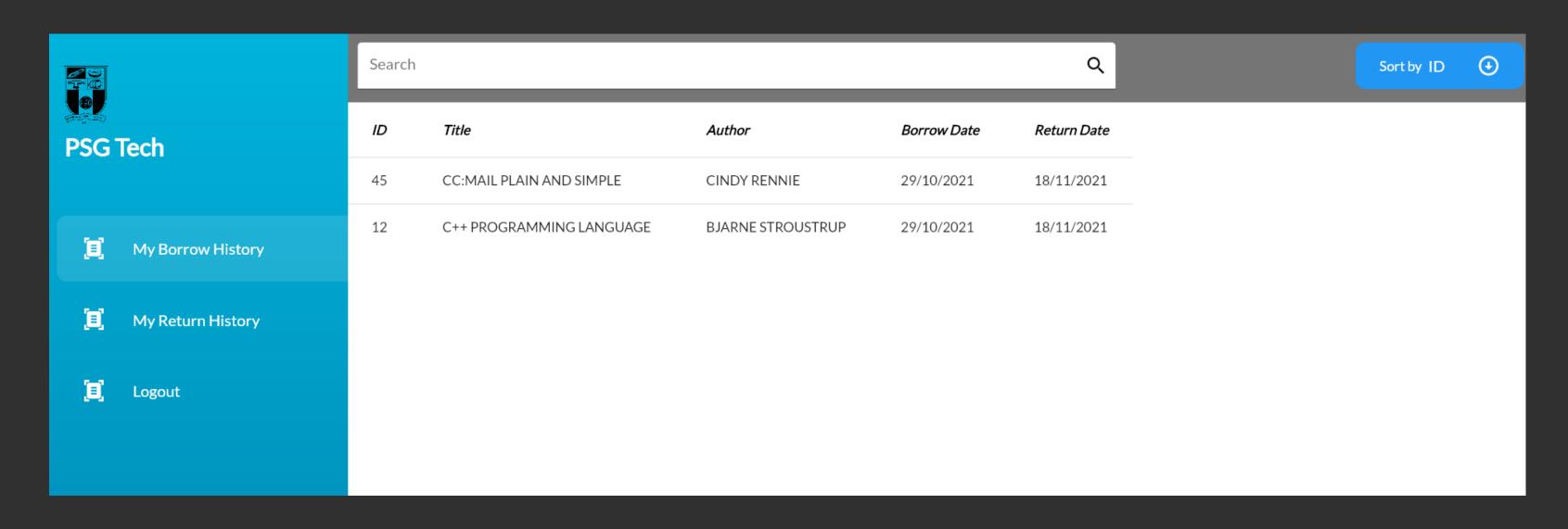
Login



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Student portal

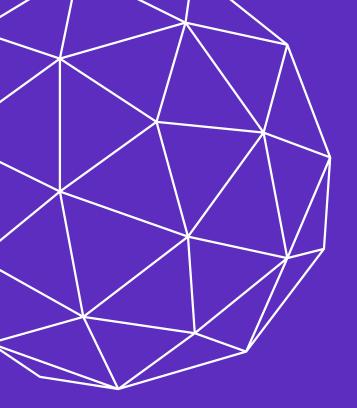
Borrow History

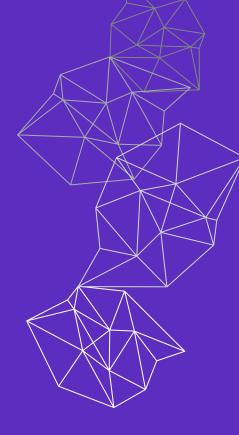


Student portal

Return History

PSG Tech		Search		٩		Sort by ID	⊙
		ID	Title	Author	Borrow Date	Return Date	Fine Paid
		100	COMPUTER GRAPHICS	ISRD GROUP	27/10/2021	16/11/2021	Rs. 0
[E] M	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
[1]	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
		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

