Project Report

for

Online Extra Class Management System

Prepared by Group 9

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Instructor: **Pranesh Das**

Course: **Database Management Systems**

Date: **8th December, 2022**

ABSTRACT:

The aim of the project is to build a Database management system that allows teachers to book slots for extra online classes. The extra class can be scheduled for a slot within the next seven days based on the availability of the batch and the professor. Professors can make the booking by entering the day, slot, batch and classroom. If the slot is available, the professor can book the class for the said slot, but if it is for an elective course, then it will display all students who have a time table clash at that particular slot after which the professor can choose to book it or not book it.

Students can login with their roll number and view their time table.

Software Requirements Specification

for

Online Extra Class Scheduling

Version 2

Prepared by Group 9

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Revisions

Version	Primary Author(s)	Description of Version	Date Completed
Version 0.2	Group 9	This version has an updated design of the database.	22/11/2022

Instructor: Pranesh Das

Course: Database Management Systems

Date: November 9, 2022

Contents

Introduction

1.1 Document Purpose

The objective of this project is to build a Database Management System that allows professors of the institute to schedule extra classes for the students. Extra classes can be scheduled for a slot within the next seven days based on the availability of the batch, the professor and the classroom.

1.2 Product Scope

Students can use the product to view their time table for the next seven days. Professors on the other hand, upon logging in, have four features available to them, which allow them to schedule a class, deschedule a class, view their own timetable and view the timetable of any batch of students.

1.3 Intended Audience and Document Overview

The clients – the students and professors, are the intended audience of this database management system.

1.4 Definitions, Acronyms and Abbreviations

CSS	Cascading Style Sheets
DSS	Decision Support System
HTML	Hypertext Markup Language
IEEE	Institute of Electrical and Electronics Engineers

1.5 Document Conventions

This document follows the IEEE formatting specifications.

1.6 References and Acknowledgments

Use Case Diagram Tutorial	https://www.youtube.com/watch?v=zid-MVo7M-E
Creating Use Case Diagram	www.lucid.app

2 Overall Description

2.1 Product Overview

The proposed product is an upgrade to the existing DSS website (www.dss.nitc.ac.in). It acts as a self-contained product, contacting and updating the database of students, professors, batches and slots.

2.2 Product Functionality

List of functions provided to a user:

- Login as a student
- Login as a professor

List of functions provided to a student:

- View Timetable

List of functions provided to a professor:

- Schedule a class
- Deschedule a class
- View their own timetable
- View a batch's timetable

List of helper functions assisting the major functions:

- Check slot availability
- Check professor availability
- Check batch availability
- Check room availability
- Check password

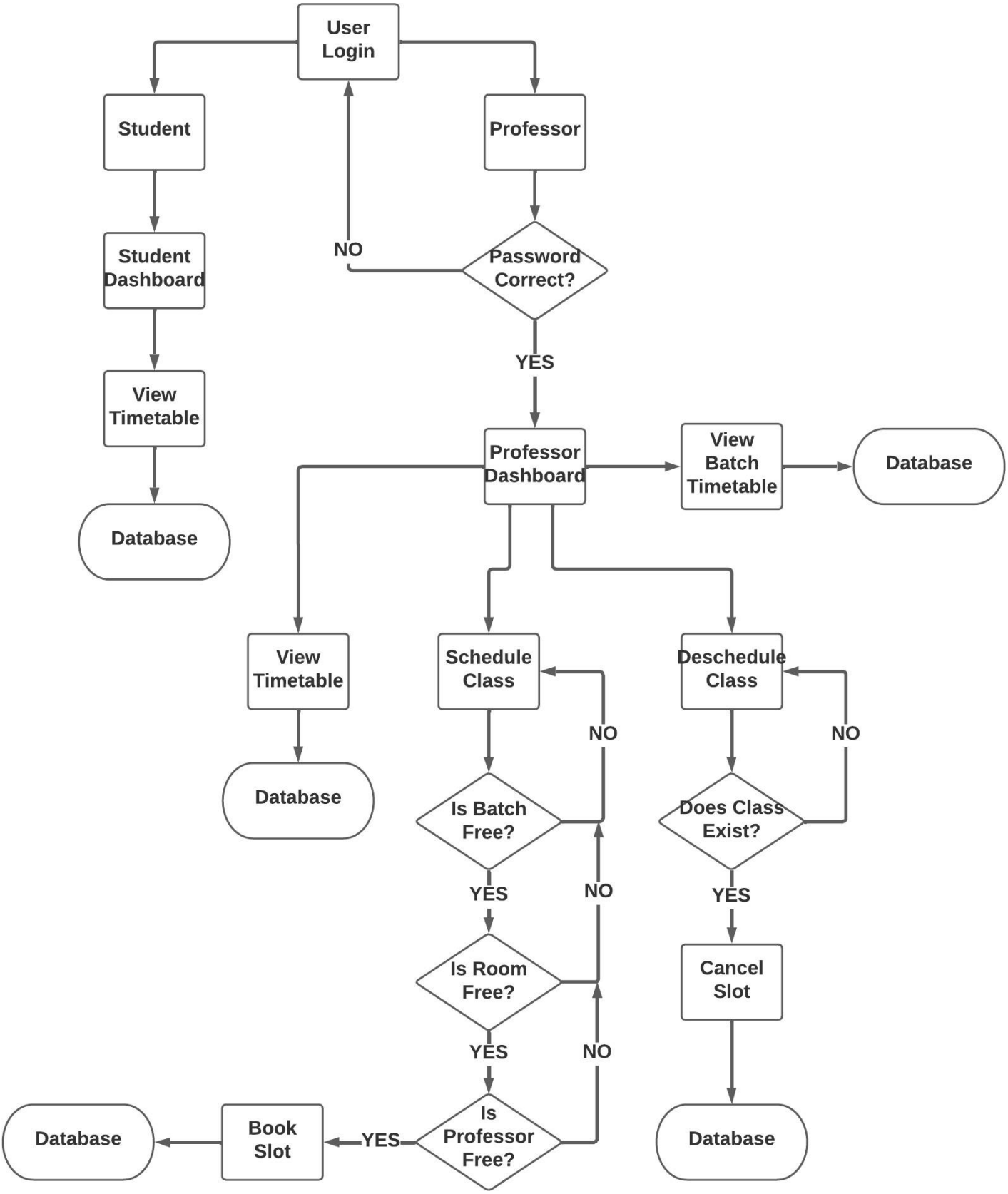
2.3 Design and Implementation Constraints

An admin version of the app needs to always be active on the college servers to update the timetables every single day.

2.4 Assumptions and Dependencies

1. All students of a particular batch are enrolled for the same courses, but can enroll for different elective courses if they wish to.
2. The weekly table initially contains the same data as permanent table and gets updated as a slot is booked.

2.5 Flow Diagram

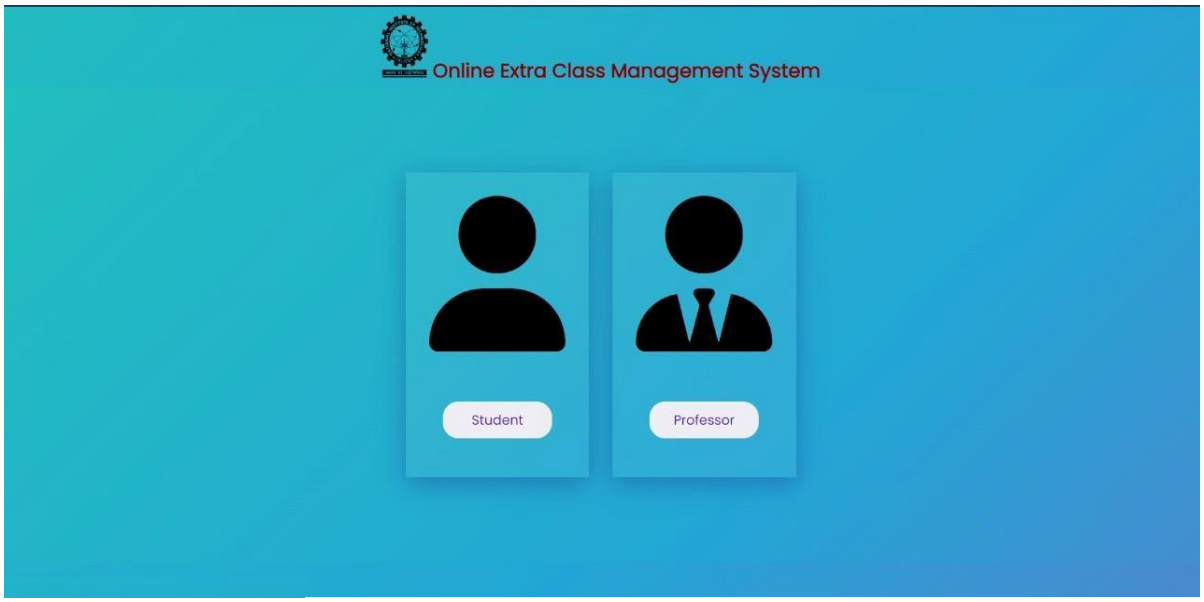


3 Specific Requirements

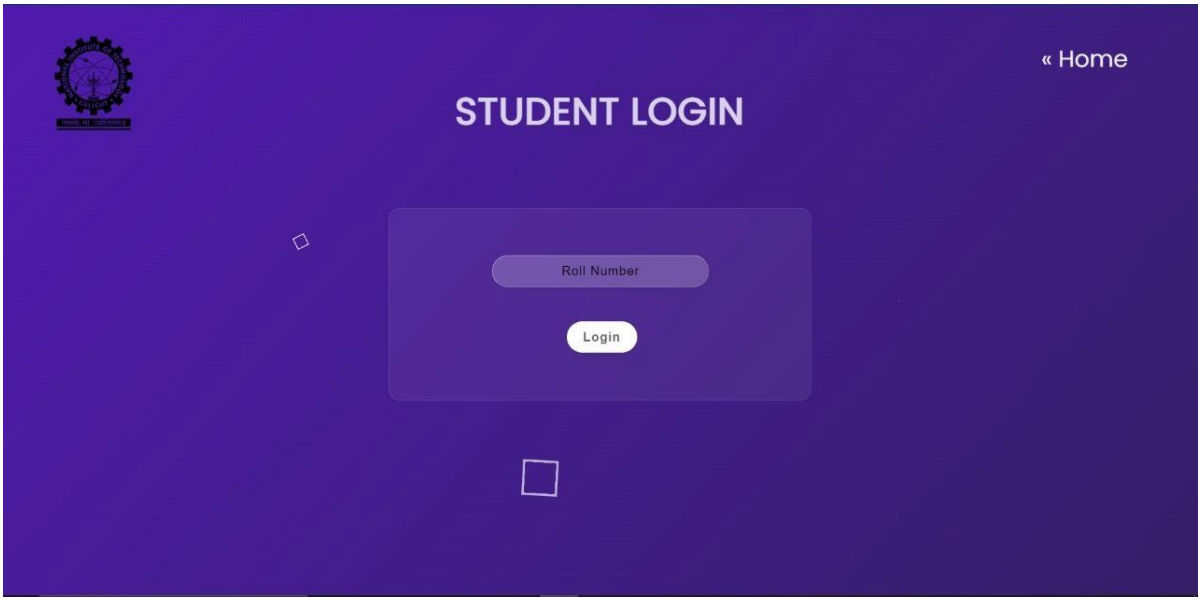
3.1 External Interface Requirements

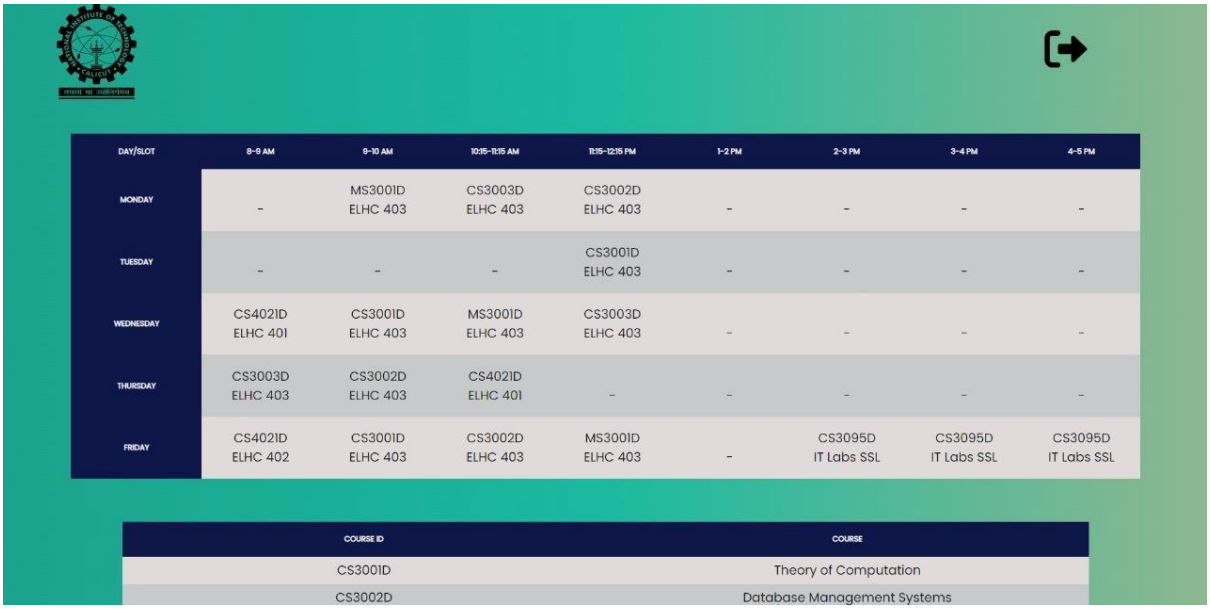
3.1.1 User Interfaces

- The layout of every page will be very clear to the user.
- When opening the application, it opens to a page where the user gets to login as a student or a professor.



- The student login button leads to a student login page wherein a student can enter their roll number and log in after which they can see their timetable.

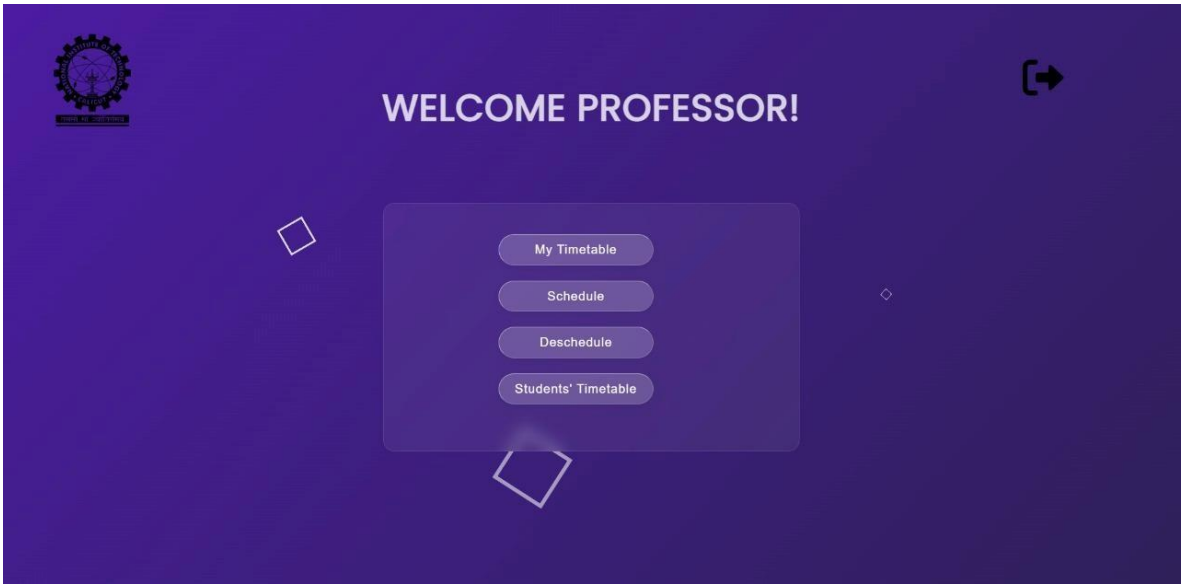




DAY/SLOT	8-9 AM	9-10 AM	10:15-11:15 AM	11:15-12:15 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM
MONDAY	-	MS3001D ELHC 403	CS3003D ELHC 403	CS3002D ELHC 403	-	-	-	-
TUESDAY	-	-	-	CS3001D ELHC 403	-	-	-	-
WEDNESDAY	CS4021D ELHC 401	CS3001D ELHC 403	MS3001D ELHC 403	CS3003D ELHC 403	-	-	-	-
THURSDAY	CS3003D ELHC 403	CS3002D ELHC 403	CS4021D ELHC 401	-	-	-	-	-
FRIDAY	CS4021D ELHC 402	CS3001D ELHC 403	CS3002D ELHC 403	MS3001D ELHC 403	-	CS3095D IT Labs SSL	CS3095D IT Labs SSL	CS3095D IT Labs SSL

COURSE ID	COURSE
CS3001D	Theory of Computation
CS3002D	Database Management Systems

- The professor login button leads to a professor login page where the professor can enter their login credentials to login, after which they can schedule classes, deschedule their classes, view their own time table, or view a batch's timetable.



3.1.2 Hardware Interfaces

- Processor: Pentium or greater
- RAM: 512MB
- Hard Disk: Disk space usage depends on data to be stored in the database – Ideally minimum 1GB
- Keyboard
- Monitor

3.1.3 Software Interfaces

Software Used	Description
Operating System	We have chosen the Windows operating system for its best support and user-friendly graphic interface
Database	SQL: If possible, you should use the newest driver available. The older JDBC drivers (for SQL Server 2000 and older) provided by My Microsoft, are known to be buggy and slow. The new SQL Server 2005 driver is preferred and can also work with SQL Server 2000
Php, HTML, CSS, Javascript	To implement the server side, we are using Php programming language, and the front end of the application is implemented using HTML, CSS and Javascript
Python	The queries to create and insert values into the database were made using python codes reading and converting our data.

3.2 Functional Requirements

- Login as a student: Allows a student to login using their roll number.
- Login as a professor: Allows a professor to login using their username and password.
- View timetable: Allows a student to view their time table.
- Schedule a class: Allows a professor to schedule a class.
- Deschedule a class: Allows a professor to deschedule one or more classes.
- View their own timetable: Allows a professor to view their own timetable.
- View a batch’s timetable: Allows a professor to view any batch’s timetable.

- Check slot availability: Checks if a slot is available while scheduling.
- Check professor availability: Checks if the professor is available while scheduling.
- Check batch availability: Checks if the batch is available while scheduling.
- Check room availability: Checks if the room is available while scheduling.
- Check password: Checks if the password entered by the professor is valid.

3.3 Use Case Model

4 Other Non-functional Requirements

4.1 Safety and Security Requirements

- The system will contact the data stored in the secure databases. The users do not have permissions to directly edit the database, changes such as adding a new course/ professor/ batch to the database can only happen via the server (super admin) and not the app. Regular backing up of the database is advised to avoid shutting down of the app in cases of errors.
- Apart from security of the data, other measures such as keeping a password for professors to login, keeping the displayed timetable and class links unavailable for editing to the students, etc. have been taken. Functionalities of scheduling and descheduling classes take into account the availability of the concerned batch and the professor ensuring no clashes and smooth management.

4.2 Software Quality Attributes

- Reliability – the system will provide instant and accurate results to the users without lag to all concerned users.
- Scalability – the system can be extended to other organizations, and the slots available per day/ number of days needed to book a class in advance can be upscaled with ease as required.
- Portability – The system can be deployed on most machines, with the quality remaining user-friendly and the app being easy to navigate through.
- Cost-effectiveness – Other than regular maintenances and disk usage on the servers, the software is relatively cost free.

Database Design Document

for

Online Scheduling for Extra Class for NITC

Version 2

Prepared by Group 09

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Instructor: **Pranesh Das**
Course: **DBMS**
Date: **10-11-2022**

CONTENT

Contents

1 Purpose

This Database Design Document for the application Online extra class scheduling for NITC establishes a target database management system identified from the analysis of the requirements of the software system maintaining data consistency and integrity. The Entity-Relational model thus created analyzing the use case diagram is converted to a relational schema of the target Database Management System (DBMS).

1.1 Document Objectives

The Database Design Document has the following objectives:

1. To build a Database Management System that allows professors of the institute to schedule extra classes for the students. Extra classes can be scheduled for a slot within the next seven days based on the availability of the batch, the professor and the classroom.
2. To provide a fundamental approach for implementing the database and related software units, thus aiding in extracting details necessary for the software development of the application.

1.2 Intended Audience and Document Overview

This document is intended to serve several groups of audience members like:

- Clients (students and professors) can view their timetables.
- Admin of the server updates the timetable every single day.
- Professors can book the free slots.

The next section of the document, Assumptions and Constraints gives an overview about the suppositions taken care of and the restrictions imposed for developing the product. The second section Database wide design focuses on describing the behaviour of the system laying importance to the major roles/actions along with the details of the DBMS platform, security requirements, performance and availability decisions. The fourth section, Database Administrative Functions provides the Entity Relationship Model created, the relational schema formed out from the ER diagram with the normalization and data formats details.

1.3 Definitions, Acronyms and Abbreviations

S. No	Abbreviation/Term	Definition(s)
1	ISBN	International Standard Book Number
2	SRS	Software Requirements Specifications
3	NITC	National Institute of Technology, Calicut
4	OECMS	Online Extra Class Management System

5	User	A student or professor of NITC
6	Admin	Super Admin of the system
7	Database	Stores the details of the users and the slots available and booked for online extra class
8	DBMS	Database Management System
9	1NF	First Normal Form
10	2NF	Second Normal Form
11	3NF	Third Normal Form

1.4 References

- http://www.sdlcforms.com/PopupForm-DatabaseDesignDocument.html
- https://app.diagrams.net/
- https://creately.com/
- Fundamentals of Database Systems by Ramez Elmasri

2 Assumptions and Constraints

2.1 Assumptions

The following are the assumptions made while developing this product:

- All students of a particular batch are enrolled for the same courses, but can enroll for different elective courses if they wish to.
- The weekly table initially contains the same data as permanent table and gets updated as a slot is booked.
- The data of all the students, professors, available and booked slots must be stored in a database.
- The system must have storage capacity and render fast access to the database
- The system will be available at all times
- The users know English as the interface will be entirely in English
- The admins are aware of the basic functioning of the system
- The database must be updated daily.
- Since the application is web-based, there is a need for an internet browser. It will be assumed that users will possess decent internet connectivity.
- It is also assumed that the user is familiar with an internet browser and handling the keyboard and mouse.

2.2 Constraints

The following design and implementation constraints are employed in the system:

- An admin version of the app needs to always be active on the college servers to update the timetables every single day.
- Each professor has an individual ID and password.
- Users can view the timetable.
- The software is designed, delivered and maintained to the client by this team.

3 Database- Wide Design Decisions

3.1 Behaviour

3.1.1 Login

The user can login either as student or as professor. The application detects their roles and they are directed to different login pages according to their roles. The student can enter Roll No and log in to the application. The professor can enter name and password to log in to the application

3.1.2 Student

Students, after logging into the system are presented with the following options:

- View their timetable along with the electives and extra class slots.

3.1.3 Professor

Professor, once signed in, is presented with the following options:

- View their own timetable
- View a batch's timetable
- Schedule extra class
- Deschedule extra class

3.2 DBMS Platform

OECMS is a web application that provides the user with a clear and interactive experience. Thedesign is simple, and all the interfaces follow a standard template. The web application is expected to work on web browsers. The application allows users to log into the system with corresponding credentials and is directed to different pages according to their roles. The functionalities extended to different users differ in accordance with their roles.

3.3 Security Requirements

The system will store all the data in a secure database. The students will be able to view information but will not have the privilege to modify/edit it. This privilege will be given to the professor, and only they have the right to update the database. These are the two different types of accessors and have varying access constraints.

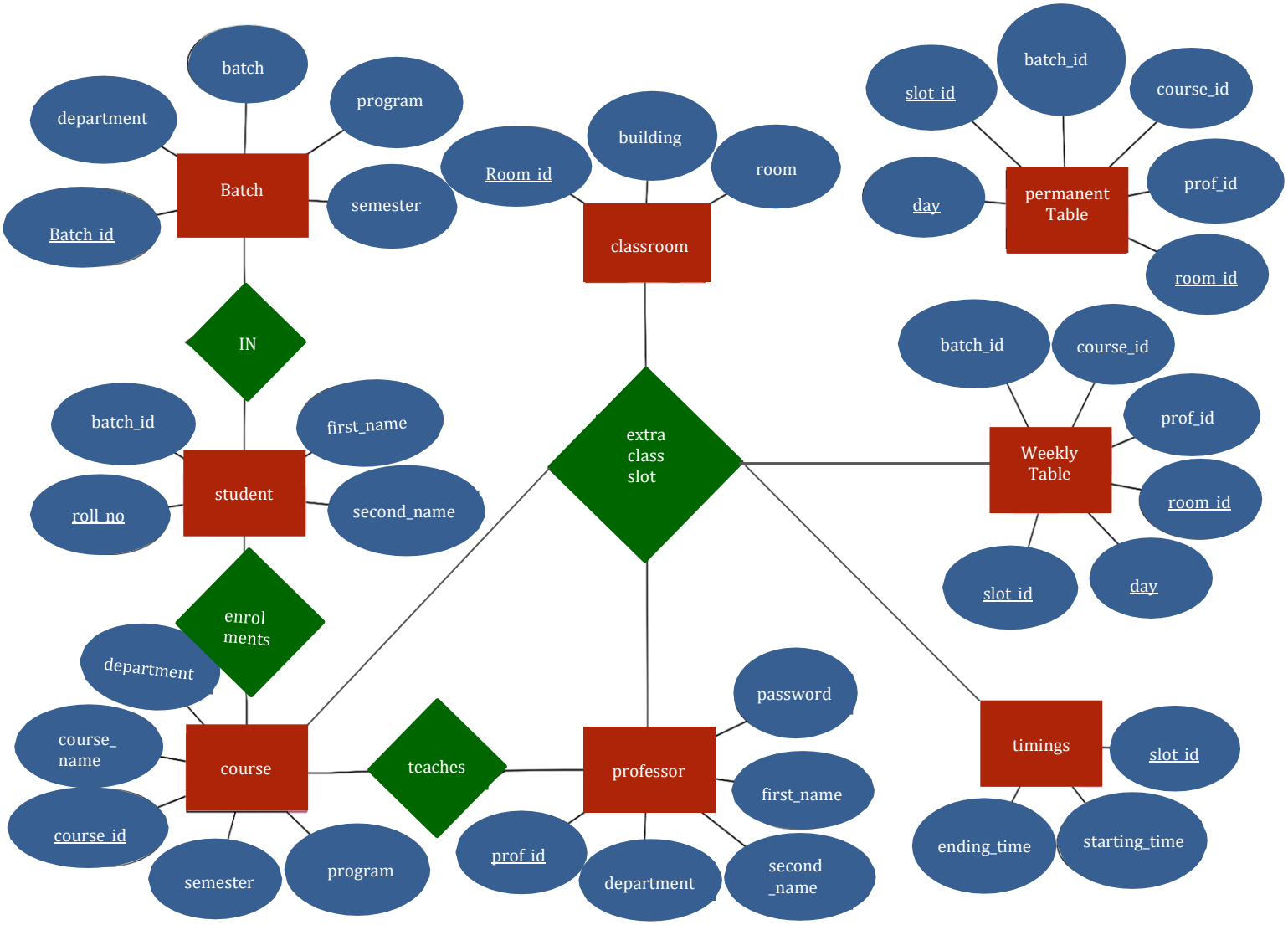
In terms of the safety aspect, the system does not pose a threat to its users. To combat attacks by malware, backing up the database is advised.

3.4 Performance and Availability Decisions

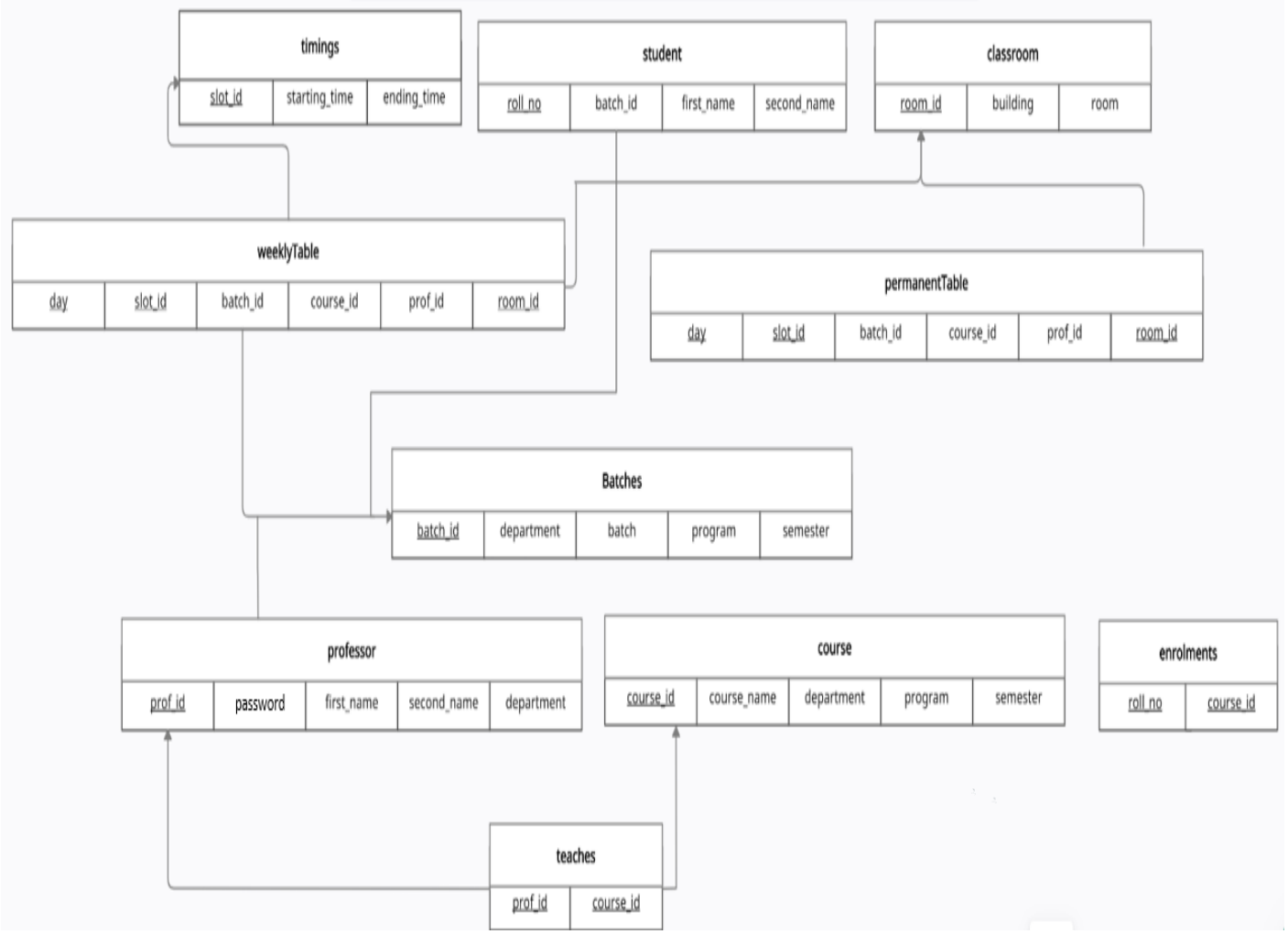
The search retrievals depend upon the updates made to the system. This system is designed to interact with students and professors across the campus.
The system will respond to the user in less than a second of submitting a request. Overall, the performance will be fast and accurate. The system will be capable of handling a large amount of data and hence accommodate high no of batches, student and professor details, user credentials, etc.

4 Database Administrative Functions

4.1 Entity-Relation Model



4.1 Relational Schema



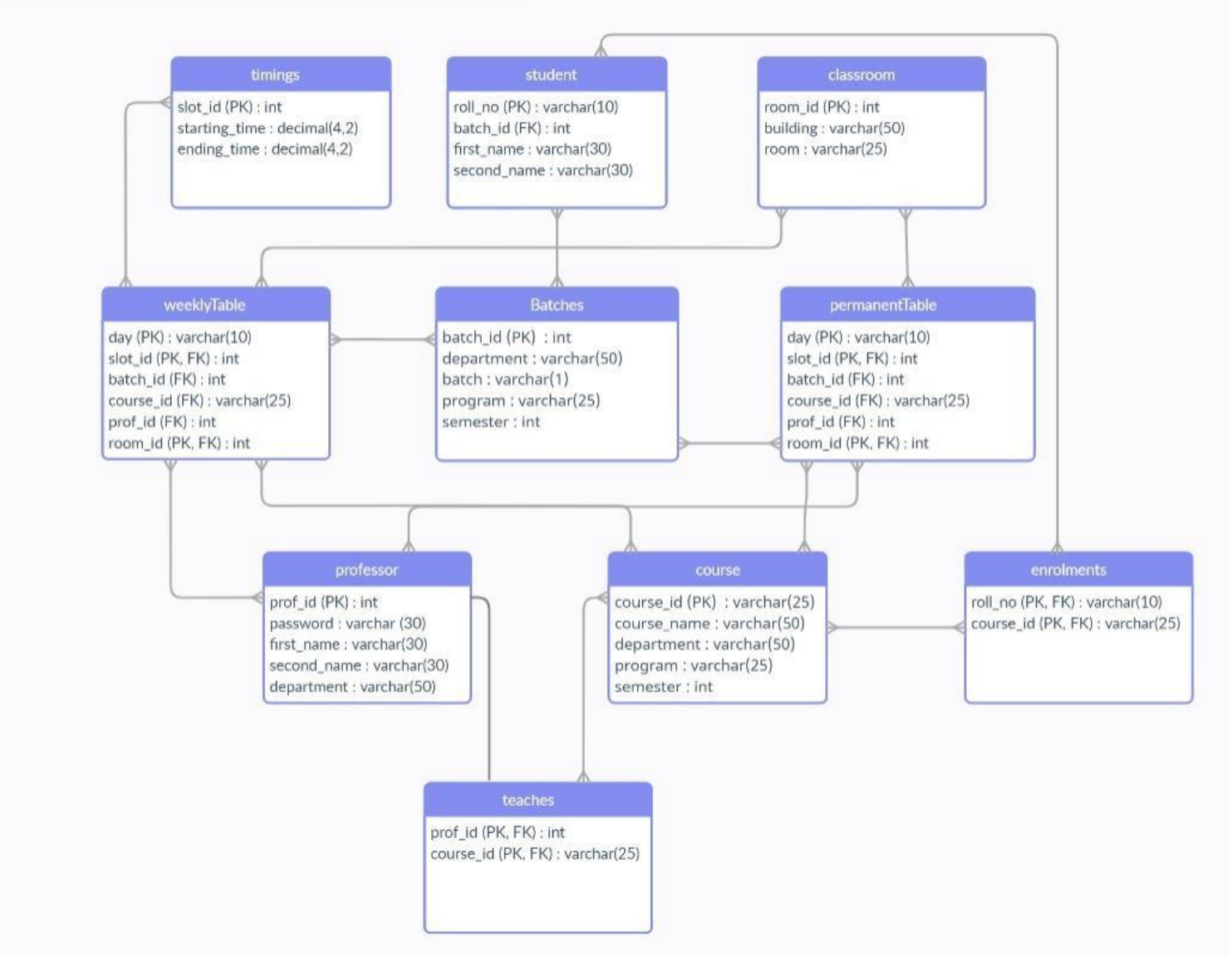
4.2 Normalization

- 1NF - The tables are in 1NF, as there are no multivalued or composite attributes. Each table cell contains atomic values, and each record is unique. Hence the database is 1NF normalized.

- 2NF - The tables are already in 1NF as proved above. There are no partial dependencies, that is, there are no non-prime keys solely dependent on only one part of a primary key in any of the tables. Hence the database is 2NF normalized.

- 3NF – The tables are already in 1NF and 2NF as proven above. There are also no transitive dependencies as a result of which, the database is 3NF normalized.

4.3 Schema Description & Data Formats



Database Snapshots:

- Courses:

course_id	course_name	department	semester	program
CEU302D	Principles of Structural Design	Civil	5	B.Tech
CEU303D	Geotechnical Engineering I	Civil	5	B.Tech
CEU305D	Transportation Engineering II	Civil	5	B.Tech
CEU322D	Concrete Technology	Civil	5	B.Tech
CEU323D	Ground Improvement	Civil	5	B.Tech
CEU324D	Reinforced Earth and Geotextiles	Civil	5	B.Tech
CEU357D	Hydropower	Civil	5	B.Tech
CEU391D	Material Testing Lab II	Civil	5	B.Tech
CS3001D	Theory of Computation	Computer Science and Engineering	5	B.Tech
CS3002D	Database Management Systems	Computer Science and Engineering	5	B.Tech
CS3003D	Operating Systems	Computer Science and Engineering	5	B.Tech
CS3092D	Operating System Laboratory	Computer Science and Engineering	5	B.Tech
CS3095D	Database Management System Laboratory	Computer Science and Engineering	5	B.Tech
CS4021D	Number Theory and Cryptography	Computer Science and Engineering	5	B.Tech
CS4023D	Artificial Intelligence	Computer Science and Engineering	7	B.Tech
CS4048D	Mathematical Foundations of Machine Learning	Computer Science and Engineering	5	B.Tech
CS4049D	Advanced Computer Networks	Computer Science and Engineering	7	B.Tech
CS4050D	Design and Analysis of Algorithms	Computer Science and Engineering	5	B.Tech
CS4057D	Embedded Systems	Computer Science and Engineering	7	B.Tech
CS4063D	Topics in Cryptography	Computer Science and Engineering	7	B.Tech
CS4067D	Foundations of Programming	Computer Science and Engineering	5	B.Tech
CS4092D	Machine Learning Laboratory	Computer Science and Engineering	5	B.Tech
CS4097D	Object Oriented Systems Laboratory	Computer Science and Engineering	5	B.Tech
CS6135D	Logic for Computer Science	Computer Science and Engineering	7	B.Tech
ME3001D	Dynamics of Machinery	Mechanical	5	B.Tech
ME3002D	Principles of Heat Transfer	Mechanical	5	B.Tech
ME3031D	Theory of Plasticity	Mechanical	5	B.Tech
ME3032D	Automobile Engineering	Mechanical	5	B.Tech
ME3101D	Management of Production Systems	Mechanical	5	B.Tech
ME3102D	Manufacturing Science	Mechanical	5	B.Tech
ME3121D	Powder Metallurgy	Mechanical	5	B.Tech
MS3001D	Engineering Economics	Computer Science and Engineering	5	B.Tech

- Student:

roll_no	batch_id	first_name	second_name
B200012CS	1	Rakesh	U
B200010CS	1	Raj	Varma
B200006CS	1	Raj	G
B200008CS	1	Raj	Sharma
B200002CS	1	Rahul	B
B200020CS	1	Raj	D
B200018CS	1	Dinesh	N
B200004CS	1	Ramesh	I
B200016CS	1	Rahul	A
B200014CS	1	Ramesh	G
B200693CS	2	Amritha	H Prabhu
B200697CS	2	Rishika	V Menon
B200691CS	2	Tejaswini	R
B200059CS	2	Vaisakh	Ramachandran
B200055CS	2	Rithika	Kathirvel
B200053CS	2	Navaneeth	Shanavasan
B200701CS	2	Sandhra	Gireeshkumar
B200737CS	2	Aswin	Sreekumar
B200743CS	2	Jackson	Stephan
B200761CS	2	Amal	Manikandan
B200841CS	2	Rishit	Kumar Chordia
B190002CS	3	Tejas	Bhatt
B190004CS	3	Ishan	Bhatt
B190006CS	3	Rishita	Goswami
B190008CS	3	Ishan	Bhardwaj
B190010CS	3	Rishita	Patel
B190001CS	4	Aditi	Bhatt
B190003CS	4	Akshay	Mandhana
B190005CS	4	Divya	Kohli
B190009CS	4	Rishi	Dhoni
B190007CS	4	Vaisakha	Pandya
B200010CE	5	Akshay	Mandhana
B200006CE	5	Rishita	Pandya
B200004CE	5	Akshay	Varma
B200002CE	5	Rishi	Chavla
B200008CE	5	Vaisakha	Singhania
B200005CE	6	Rishi	Khatri
B200007CE	6	Diya	Dhawan
B200003CE	6	Ajay	Varma
B200001CE	6	Dhruv	Goswami

- Professor:

prof_id	password	first_name	second_name	department
1	Pran@1234	Pranesh	Das	Computer Science and Engineering
2	Prab@1234	Prabhu		Computer Science and Engineering
3	Raju@1234	Raju	Hazari	Computer Science and Engineering
4	Jayp@1234	Jayprakash	Mural	Computer Science and Engineering
5	Mani@1234	Manisha		Computer Science and Engineering
6	Sume@1234	Sumesh	J	Computer Science and Engineering
7	Said@1234	Saidalavi	Kalady	Computer Science and Engineering
8	Alth@1234	Althaf	S	Computer Science and Engineering
9	Vasu@1234	Vasudevan	Ramakrishnan	Computer Science and Engineering
10	Renj@1234	Renjith		Computer Science and Engineering
11	Shee@1234	Sheerazuddin	J	Computer Science and Engineering
12	Vino@1234	Vinod	Pathari	Computer Science and Engineering
13	Vine@1234	Vineeth	Paleri	Computer Science and Engineering
14	Mura@1234	MuraliKrishnan	K	Computer Science and Engineering
15	Pour@1234	Pournami	P N	Computer Science and Engineering
16	Gopa@1234	Gopakumar	G	Computer Science and Engineering
17	Anu@1234	Anu	Mary Chacko	Computer Science and Engineering
18	Ompr@1234	Omprakash	Gupta	Mechanical
19	Isha@1234	Ishan	Chavla	Mechanical
20	Teja@1234	Tejas	Pandya	Mechanical
21	Aswi@1234	Aswini	Goswami	Mechanical
22	Rish@1234	Rishita	Anthony	Mechanical
23	Amli@1234	Amli	L	Mechanical
24	Jay@1234	Jay	Varma	Mechanical
25	Ajay@1234	Ajay	Varma	Mechanical
26	Riti@1234	Ritik	Bhatt	Civil
27	Neha@1234	Neha	Kaur	Civil
28	Aksh@1234	Akshay	Dhoni	Civil
29	Anja@1234	Anjali	Patel	Civil
30	Diya@1234	Diya	Patel	Civil
31	Dish@1234	Disha	Patani	Civil
32	Vais@1234	Vaisakha	Singhania	Civil
33	Jaya@1234	Jayaraj	P B	Computer Science and Engineering
34	Jimm@1234	Jimmy	Jose	Computer Science and Engineering
35	Arun@1234	Arun	Raj Kumar	Computer Science and Engineering

- Timings:

slot_id	starting_time	ending_time
1	8.00	9.00
2	9.00	10.00
3	10.15	11.15
4	11.15	12.15
5	13.00	14.00
6	14.00	15.00
7	15.00	16.00
8	16.00	17.00

- Batches:

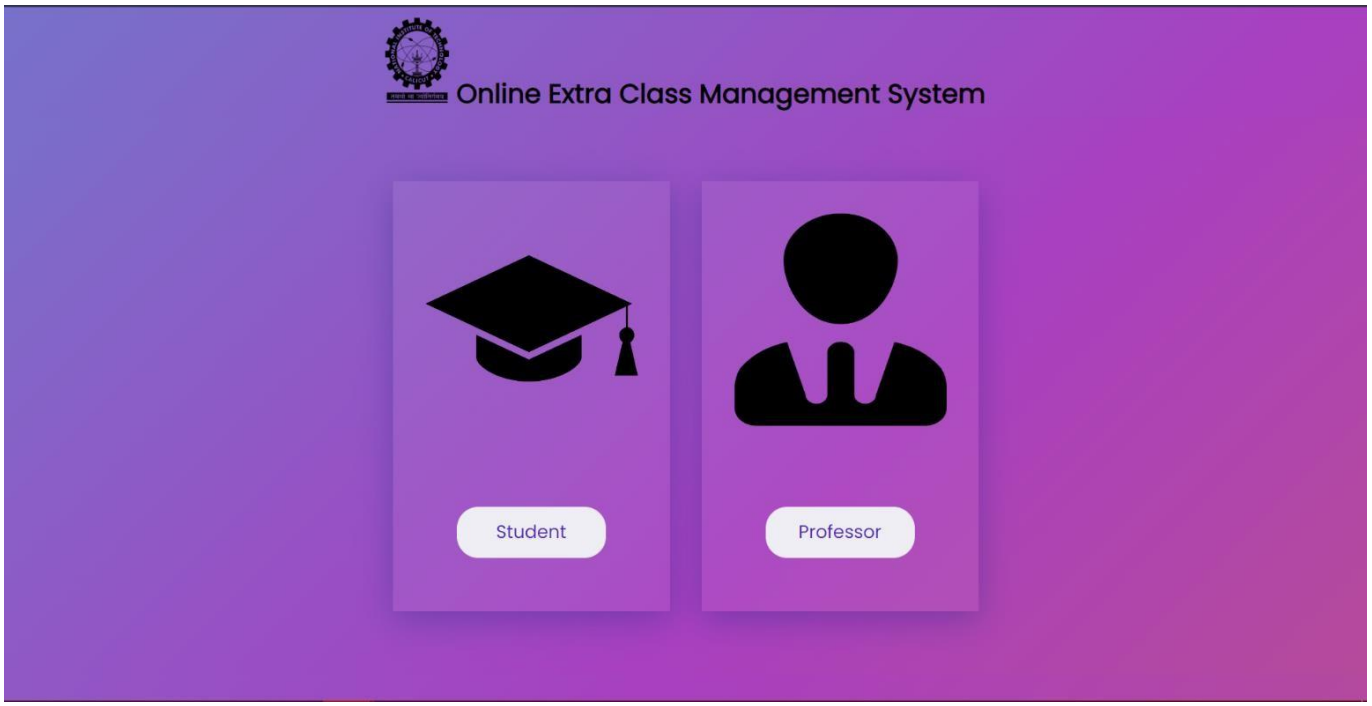
batch_id	department	batch	program	semester
1	Computer Science and Engineering	A	B.Tech	5
2	Computer Science and Engineering	B	B.Tech	5
3	Computer Science and Engineering	A	B.Tech	7
4	Computer Science and Engineering	B	B.Tech	7
5	Civil	A	B.Tech	5
6	Civil	B	B.Tech	5
7	Mechanical	A	B.Tech	5
8	Mechanical	B	B.Tech	5

User Documentation

Online Extra Class Management System

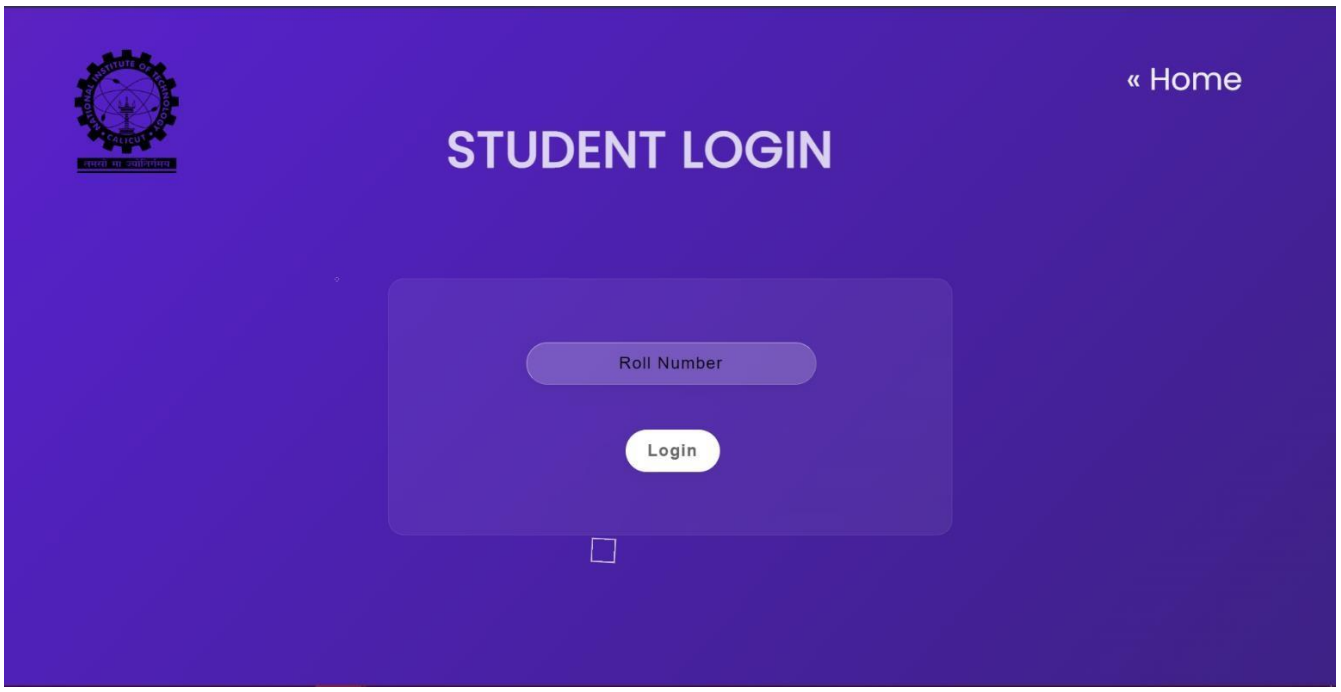
-Group 9

Home Page

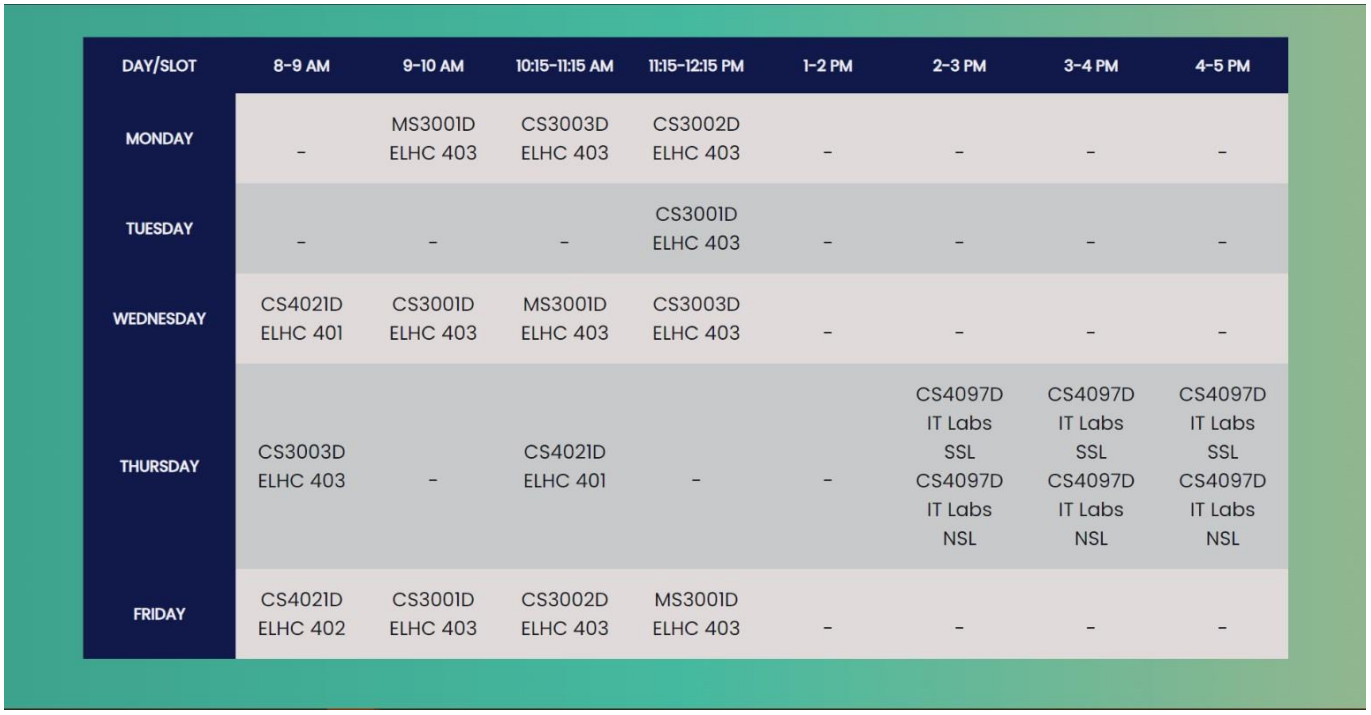


Upon opening the website, the user is led to the home page where they can login as a student or a professor.

Student Login

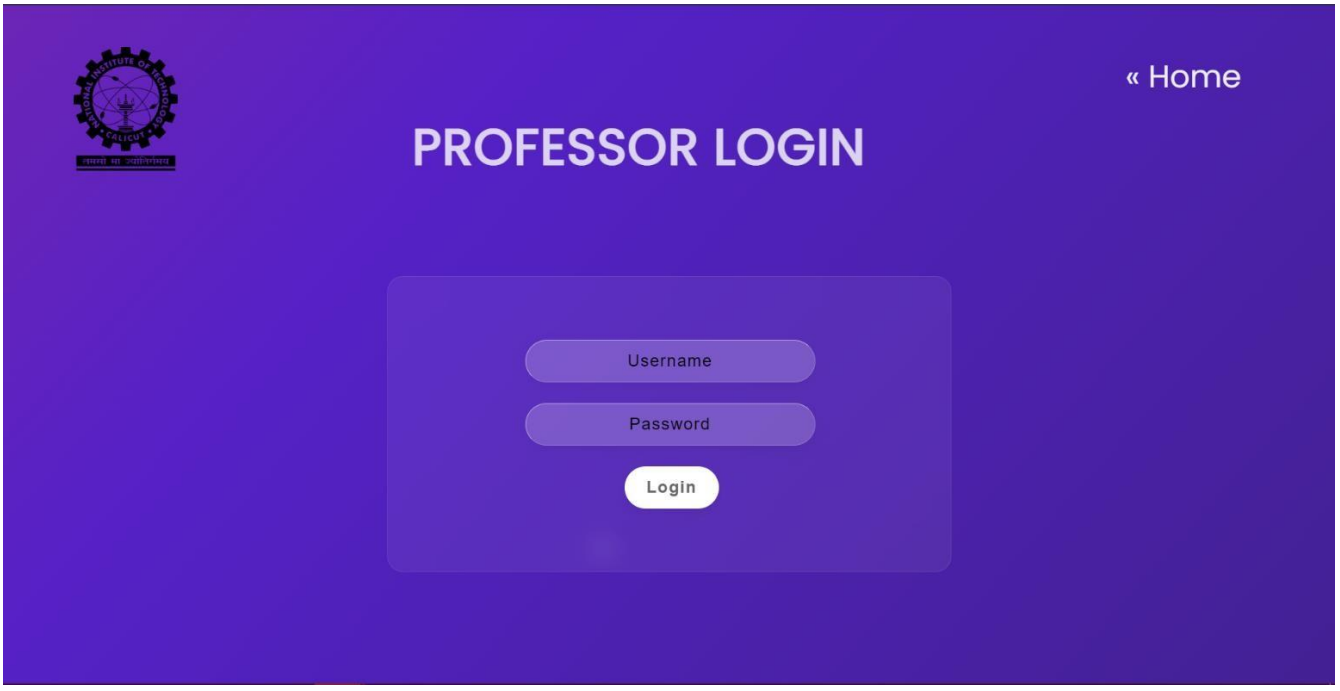


A student can login using their roll number after which they can view their time table for the week.

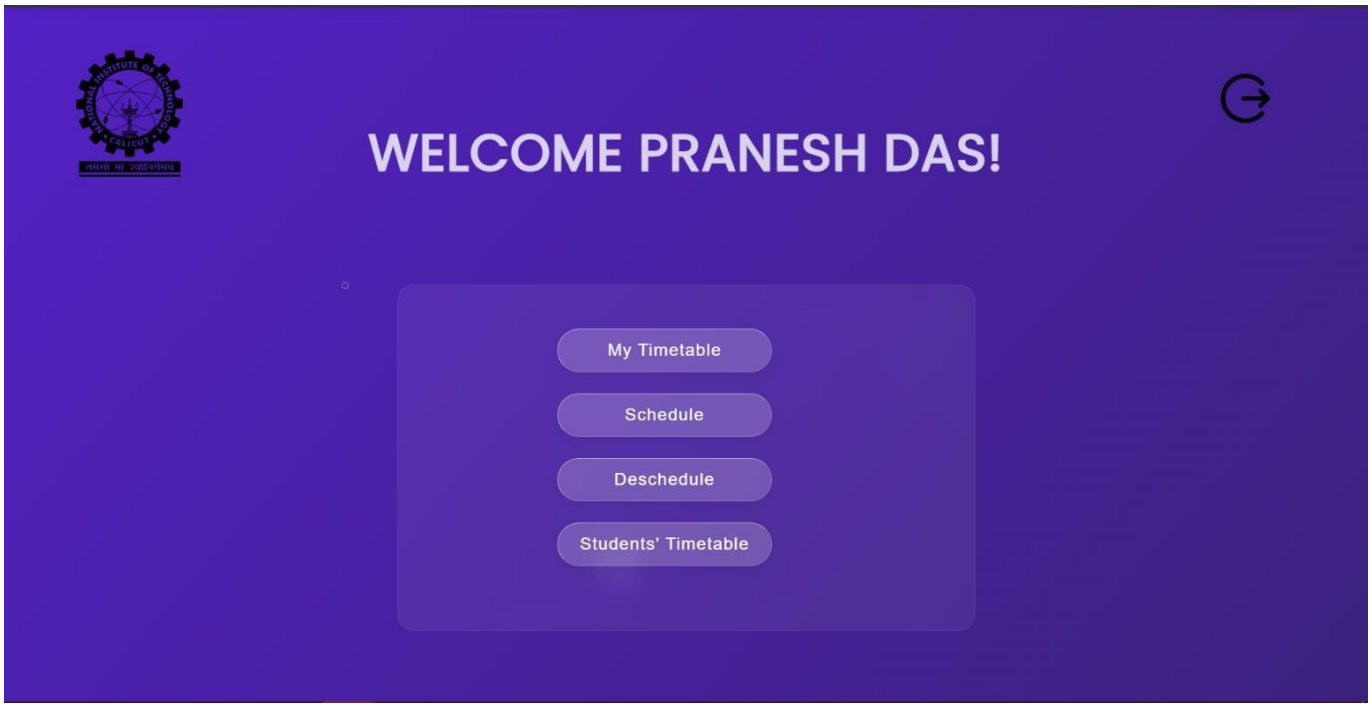


DAY/SLOT	8-9 AM	9-10 AM	10:15-11:15 AM	11:15-12:15 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM
MONDAY	-	MS3001D ELHC 403	CS3003D ELHC 403	CS3002D ELHC 403	-	-	-	-
TUESDAY	-	-	-	CS3001D ELHC 403	-	-	-	-
WEDNESDAY	CS4021D ELHC 401	CS3001D ELHC 403	MS3001D ELHC 403	CS3003D ELHC 403	-	-	-	-
THURSDAY	CS3003D ELHC 403	-	CS4021D ELHC 401	-	-	CS4097D IT Labs SSL CS4097D IT Labs NSL	CS4097D IT Labs SSL CS4097D IT Labs NSL	CS4097D IT Labs SSL CS4097D IT Labs NSL
FRIDAY	CS4021D ELHC 402	CS3001D ELHC 403	CS3002D ELHC 403	MS3001D ELHC 403	-	-	-	-

Professor Login



A professor can login using their username and password after which the following options are available to them:

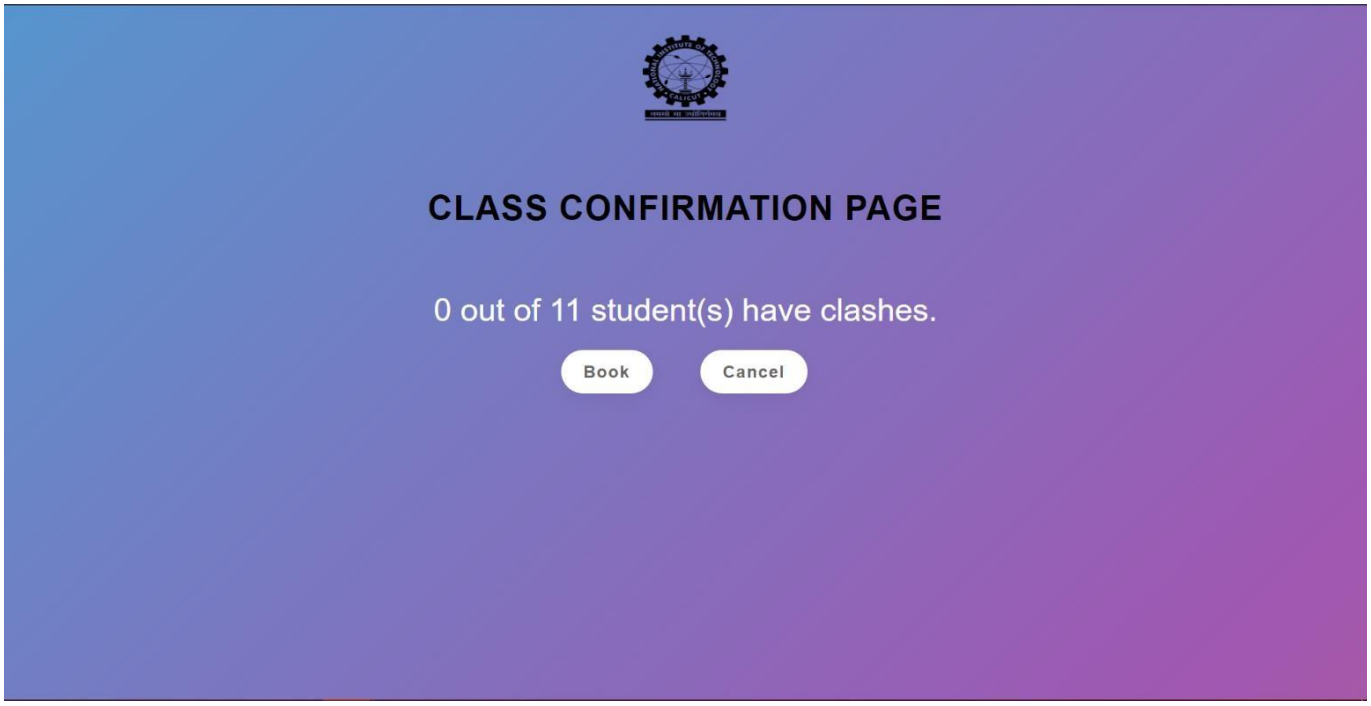


Professor's Time Table

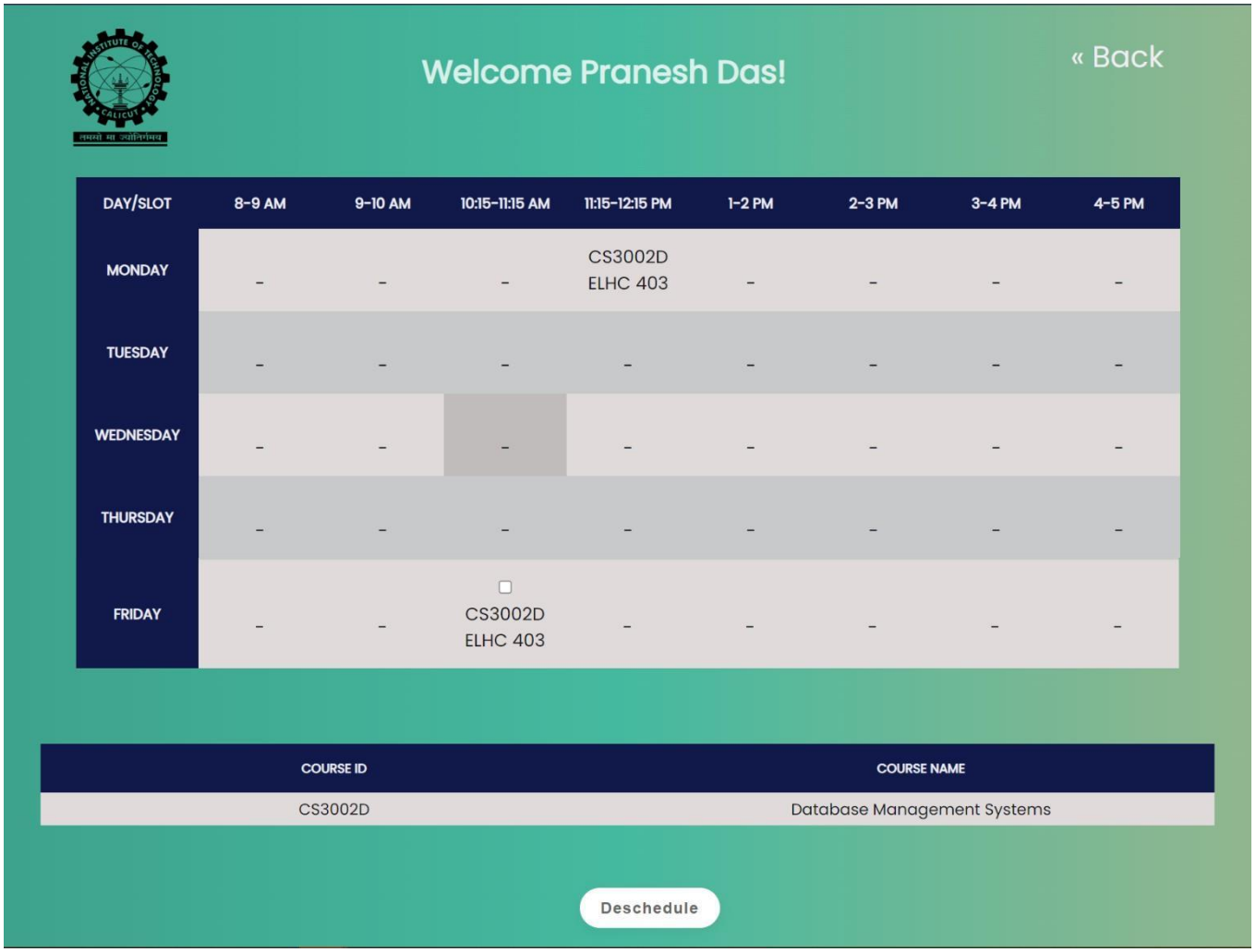
DAY/SLOT	8-9 AM	9-10 AM	10:15-11:15 AM	11:15-12:15 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM
MONDAY	-	-	-	CS3002D ELHC 403	-	-	-	-
TUESDAY	-	-	-	-	-	-	-	-
WEDNESDAY	-	-	-	-	-	-	-	-
THURSDAY	-	-	-	-	-	-	-	-
FRIDAY	-	-	CS3002D ELHC 403	-	-	-	-	-

Schedule A Class

The professor can schedule a class by selecting the required details as shown above and clicking the “check” button, which then looks for the availability of the professor, the room selected and the batch selected or the number of students who have time table clashes in case of an elective course.

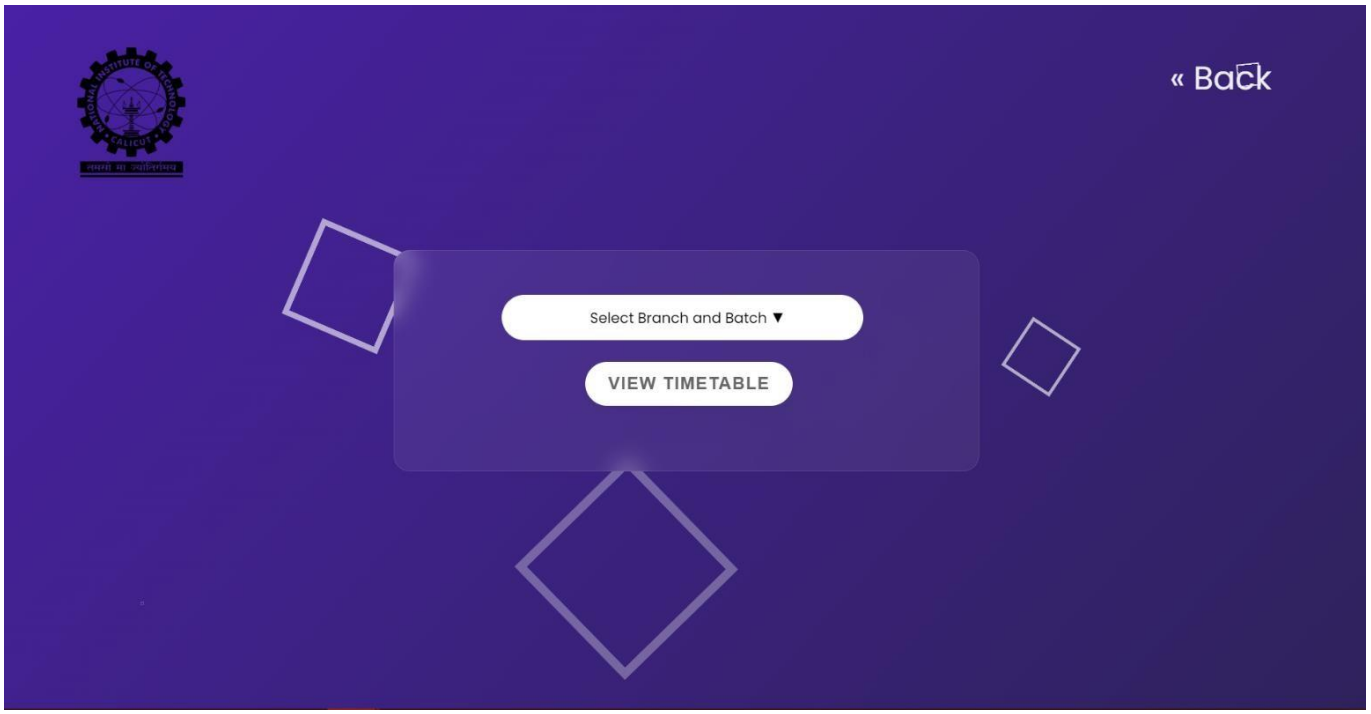


The “Book” option confirms the professor’s choice for scheduling the class and schedules it for the students selected. Should there be any clashes and the professor would like to cancel the class, the “cancel” button serves this purpose.

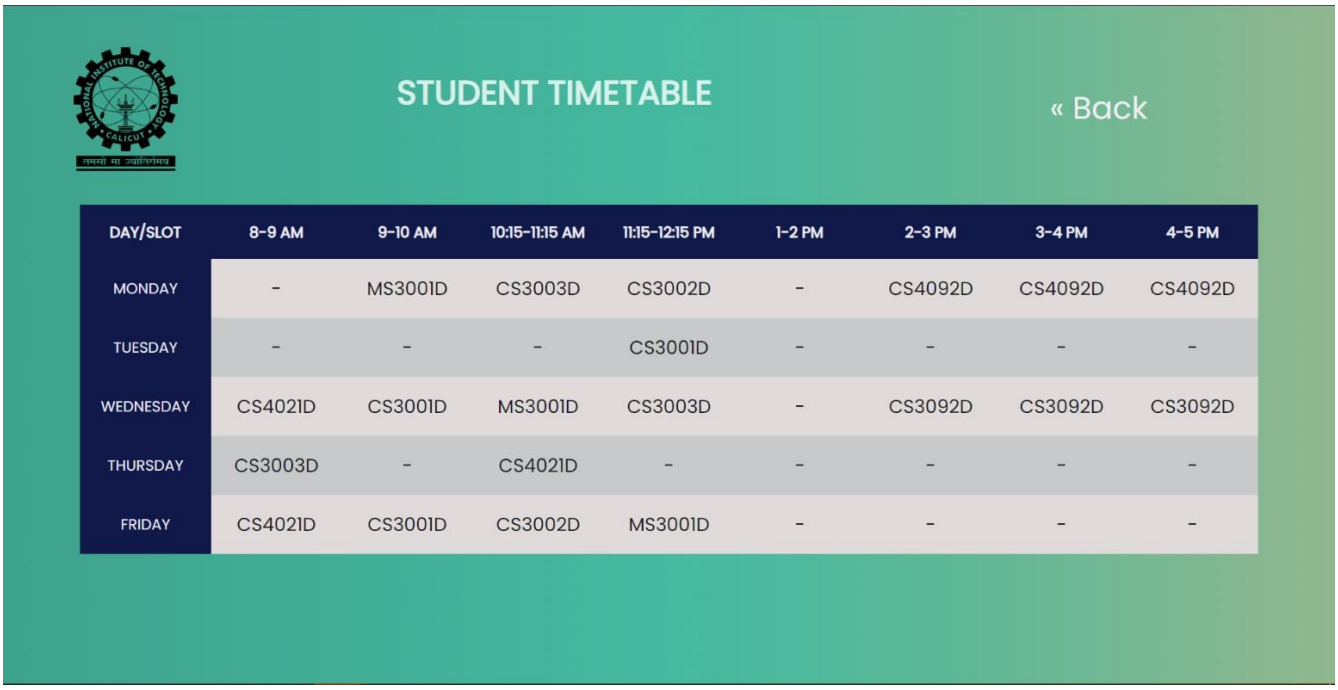


The professor can click the slots they wish to deschedule classes for and on clicking the “deschedule” button, the class gets cancelled and will not be displayed on the time table.

View Batch Time Table



This option allows the professor to view a batch's time table in order to see which slots they can schedule an extra class in.



DAY/SLOT	8-9 AM	9-10 AM	10:15-11:15 AM	11:15-12:15 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM
MONDAY	-	MS3001D	CS3003D	CS3002D	-	CS4092D	CS4092D	CS4092D
TUESDAY	-	-	-	CS3001D	-	-	-	-
WEDNESDAY	CS4021D	CS3001D	MS3001D	CS3003D	-	CS3092D	CS3092D	CS3092D
THURSDAY	CS3003D	-	CS4021D	-	-	-	-	-
FRIDAY	CS4021D	CS3001D	CS3002D	MS3001D	-	-	-	-