

TIMETABLE MANAGEMENT SYSTEM

Project report in partial fulfillment of the requirement of Software Engineering Lab
In
COMPUTER SCIENCE & ENGINEERING DEPT.

Submitted By

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Table of Contents

Table of Contents	ii
Revision History	Error! Bookmark not defined.
1. Introduction.....	3
1.1 Purpose.....	3
1.2 Document Conventions.....	3
1.3 Intended Audience and Reading Suggestions	3
1.4 Project Scope	3
1.5 References	3
2. Overall Description	4
2.1 Product Perspective	4
2.2 Product Features	4
2.3 User Classes and Characteristics.....	4
2.4 Operating Environment	5
2.5 Design and Implementation Constraints	5
2.6 User Documentation	5
2.7 Assumptions and Dependencies.....	Error! Bookmark not defined.
3. System Features	6
3.1 System Feature 1	Error! Bookmark not defined.
3.2 System Feature 2 (and so on)	Error! Bookmark not defined.
4. External Interface Requirements	6
4.1 User Interfaces	6
4.2 Hardware Interfaces.....	6
4.3 Software Interfaces	7
4.4 Communications Interfaces	7
5. Other Nonfunctional Requirements	7
5.1 Performance Requirements	7
5.2 Safety Requirements	7
5.3 Security Requirements	7
5.4 Software Quality Attributes.....	7
Appendix A: Glossary.....	7
Appendix B: Analysis Models	8
Appendix C: Issues List.....	11
6. Screen Shots of the developed system	
7. Future Scope	
8. Bibliography	

1. Introduction

1.1 Purpose

1.2 The problem is to design and implement an algorithm to create a semester course time table by assigning time-slots and rooms to a given set of courses to be run that semester under given constraints. The constraints include avoiding clashes of time-slots and rooms, assigning appropriate rooms and appropriate no. of slots and contact hours to the courses etc

1.3 Document Convention

This documentation uses following convention.

- DB Database
- IM Inventory Management
- SW Software
- Tech Technology
- Comp Company
- Sys System
- HTML Hyper Text Markup Language
- CSS Cascading Style Sheet

1.4 Intended Audience and Reading Suggestions

This project is a prototype for the timetable management system which is to be read by the development team, project managers, marketing staff and documentation writers. The distributors who markets the finished product, may review the document to learn about the project and to understand the requirements. The SRS has been organized approximately in order of increasing specificity. The developers and project managers need to become intimately familiar with the SRS.

1.5 Project Scope

1.6 The scope of the project is the system on which the software is installed, i.e. the project is developed as a desktop application, and it will work for a particular institute or organization. But later on the project can be modified to operate it online.

1.7 References

- <https://www.w3schools.com/html/>
- <https://www.tutorialspoint.com/css/index.htm>
- <https://www.codecademy.com/learn/learn-php>

2. Overall Description

2.1 Product Perspective

An Timetable Management System stores the following information.

- **Admin Description:** It includes admin name, username , adminid, email id, and password to keeping the record of the user for any emergency and any kind of information.
- **User Details:** It includes the details of User the like name, email, course and subject of the class which is included in the list and keeping the record in the database for any kind of information.
- **Timetable Changes Description:** The period and teachers can be changed and also it can remove from the table if not needed.

2.2 Product Features

Some of the features of the Timetable Management System are:-

- Automatic Timetable generation
- Easy to operate
- Compatibility with Existing Software
- Mobile Access
- Time management

2.3 User Classes and Characteristics

Users of the system should be able to retrieve timetable information , there faculty and course from the database. User select the course and view their respective course timetable. This system will be used in one or more User Modules which are Administrator, Teacher, staff, and students. As all of these have different requirements the modules are designed to meet their needs and avoid any type of confusion.

The Uses of all three User Modules have been described below :-

- Select the course from the table.
- Select the number of teachers and students.
- Add teachers and students to the database and can view their respective timetable whenever needed.
- Admin can also delete the teacher, student and course which is not required.

2.4 Operating Environment

Operating environment for the Inventory management system is as listed below:

- Xampp Database
- Client/Server System
- Operating System: Windows
- Platform: VS Code/Php Database

2.5 Design and Implementation Constraints

This application is a web oriented application which is the basic constrain on design and interfaces.

IMS is meant to be quick and responsive, even when dealing with large numbers of user, so each feature must be designed and implemented with efficiency in mind.

The Internet connection is also a constraint for the application. Since the application fetches data from the database over the internet. As application receives online timetable details and they have to provide other management also so the internet is one of the basic constraint in the effective running of the IMS.

2.6 User Documentation

Steps to use the System by the User:

- When the web page will open, user have to login the page with user name and password.
- After login into page, user will enter into the system.
- Now they can view their timetable if they need.
- User can also view their details and also able to update their details.

3. System Features

➤ Description And Priority

The timetable management system maintains information on various course and subject.

➤ Response Sequence

- Select the course name from the list.
- Displays the detailed table of the timetable of the respective users.
- Edit the information.

➤ Client/Server System

The term client/server refers primarily to an architecture or logical division of responsibilities, the client is the application (also known as the front-end), and the server is the DBMS (also known as the back-end).

A client/server system is distributed system in which:

- Some sites are client sites and others are server sites.
- All the data resides at the server sites.
- All application execute at the client sites.

➤ User

System shall be able to provide facility to admin to add new student and teacher in the system.

4. External Interface Requirements

4.1 User Interfaces

Each part of the user interface intends to be as user friendly as possible. The fonts and buttons used will be intended to be very fast and easy to load on web pages. The pages will be kept light in space so that it won't take a long time for the page to load.

The starting page will be the home page. An 'Add student and teacher' button is available to admin page only in which admin need to enter all the details of the user. if the admin is logged in to his/her account.

A logged in user can also view their timetable and can download them. There are pages which displays the details accordingly.

4.2 Hardware Interfaces

Processor: - Pentium I or above.

RAM: - 128 MB or above.

HD: - 20 GB or above.

NIC: - For each party

4.3 Software Interfaces

The following are needed requirements.

Operating System : Unix, Linux, Mac, Windows etc..

Development tool : HTML, CSS, PHP, JavaScript

Application: XAMPP application

Data Base : MySQL Database Server

4.4 Communications Interfaces

PHP uses session variables to communicate between pages of the website.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

Maximum possible quick response to the system is required, also should provide fast updation of records. The changes if any made should be reflected automatically in the next screens.

The connections to the servers will be based on the attributes of the user like his location and server will be working 24X7 times.

5.2 Safety Requirements

The application is password protected and also any updation of new timetable entries and displaying processing is done by only privileged users.

5.3 Security Requirements

The main security concern is for users account hence proper login mechanism is used to avoid hacking. The id registration is way to spam check for increasing the security. Hence, security is provided from unwanted use of recognition software.

5.4 Software Quality Attributes

Maintainability: The application is to be designed so that it is easily maintained. Also it should allow incorporating new requirements in any module of system.

Reliability: The application will be able to handle larger number of users. When a user edit his/her data the database will be updated immediately so that next time user will not face problems in logging and viewing table.

Portability : The application will be easily portable on any window based system

Appendix A: Glossary

HTTP: Hyper Text Transfer Protocol

SQL: Structured Query Language

GUI: Graphical User Interface

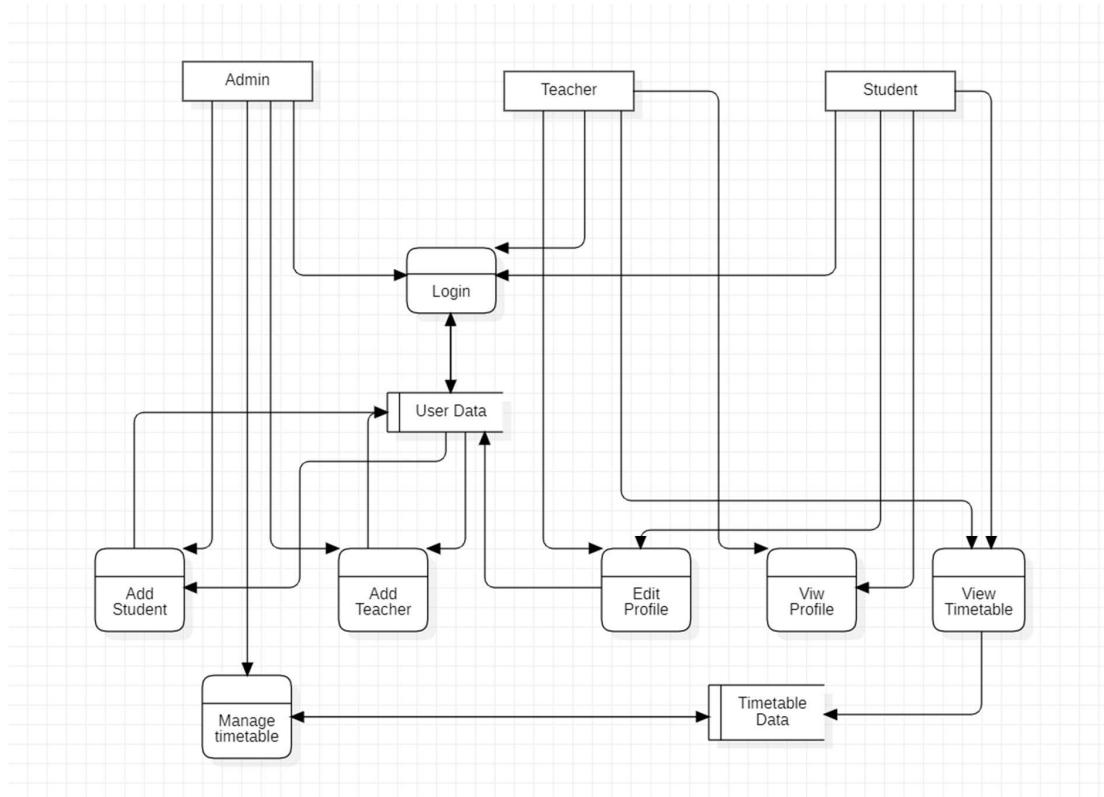
SRS: Software Requirements Specification

CSS: Cascading Style Sheet

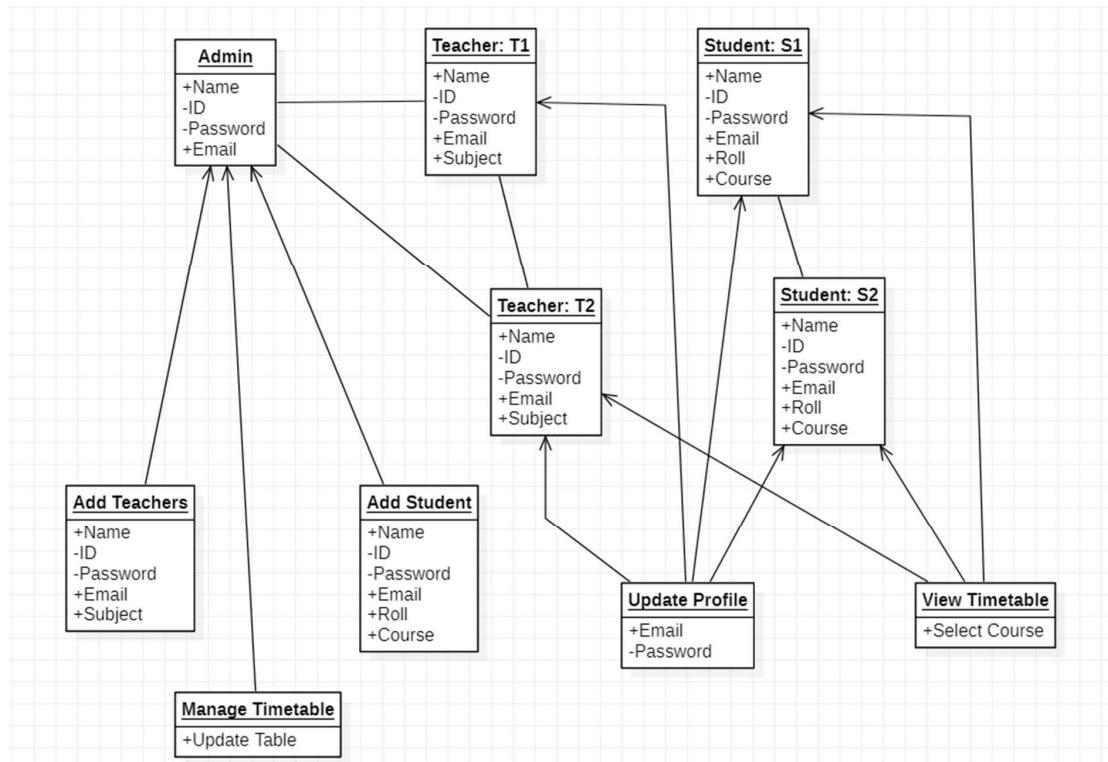
PHP a server-side scripting language designed for web development (Hypertext Pre-processor)

Appendix B: Analysis Models

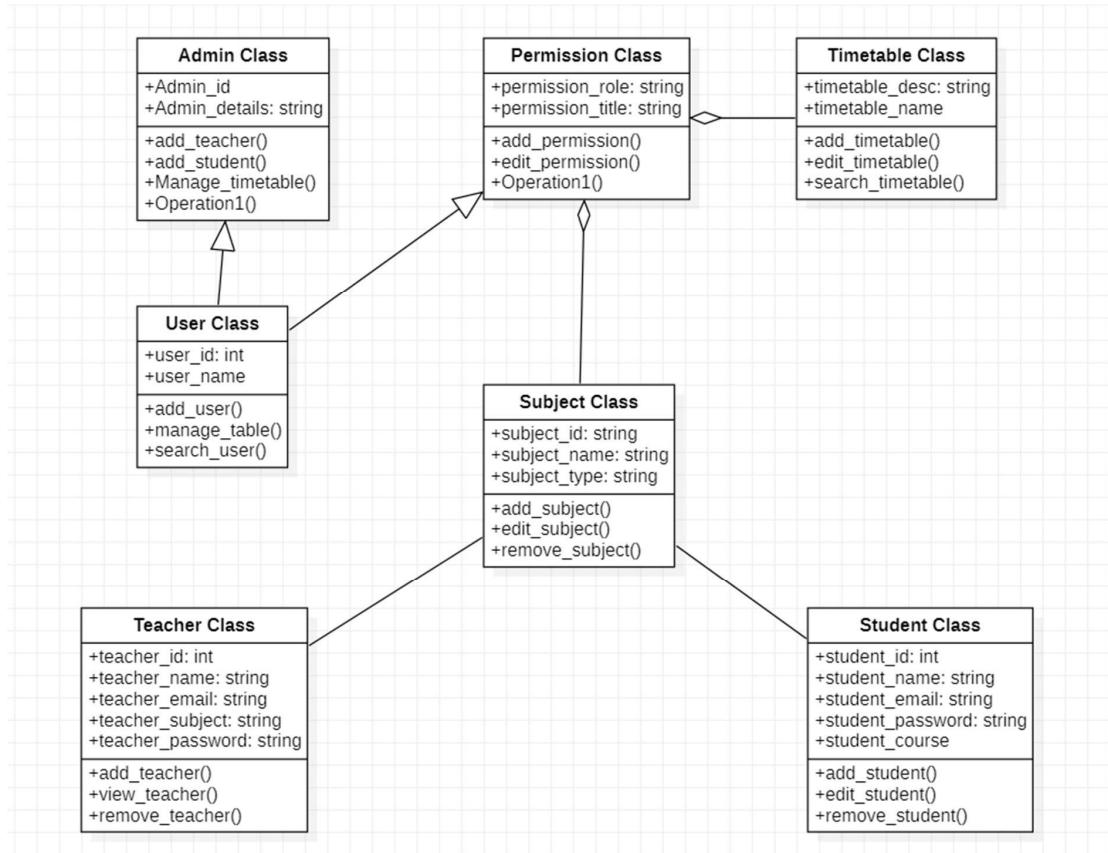
DATAFLOW DIAGRAM:-



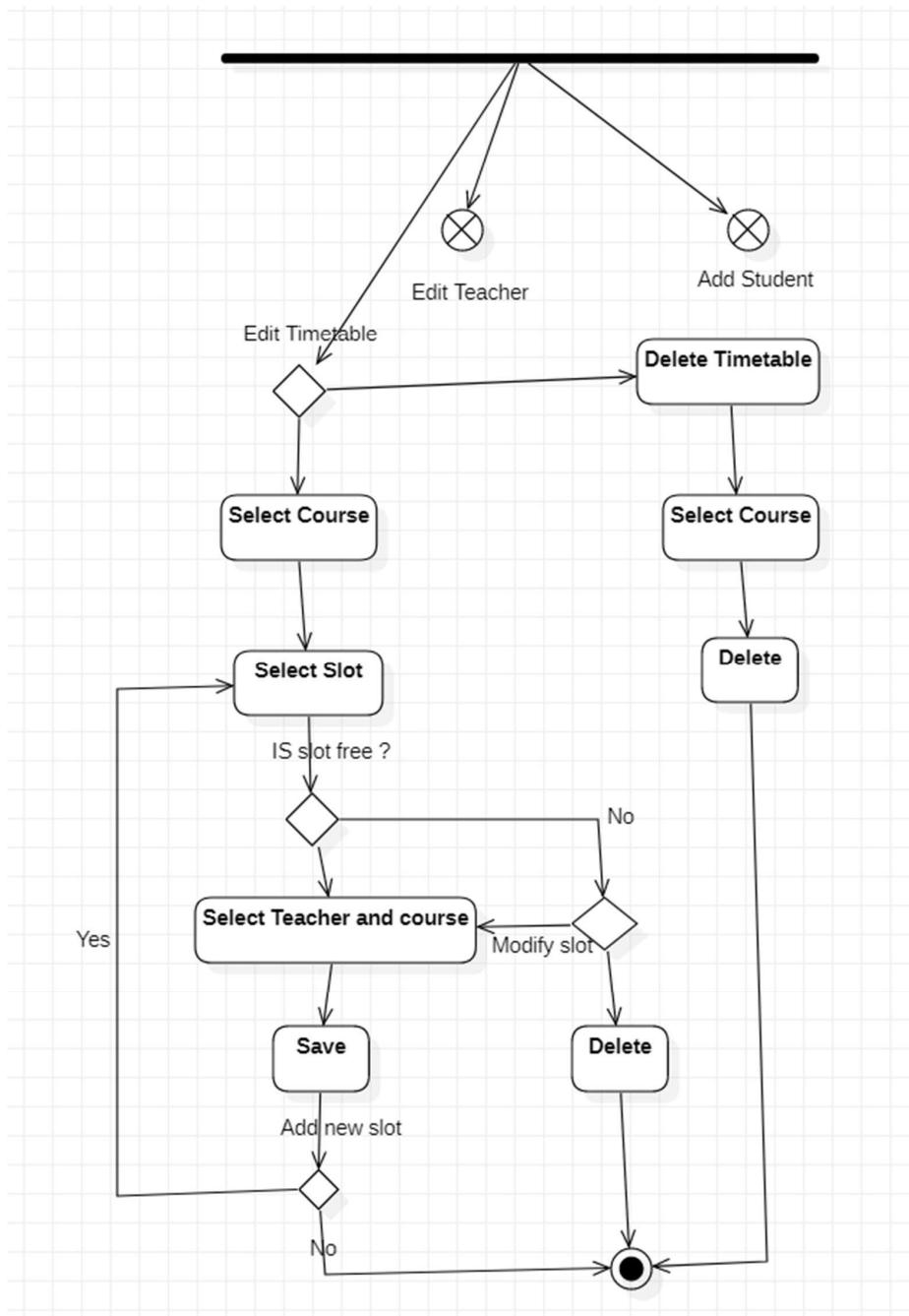
OBJECT DIAGRAM:-



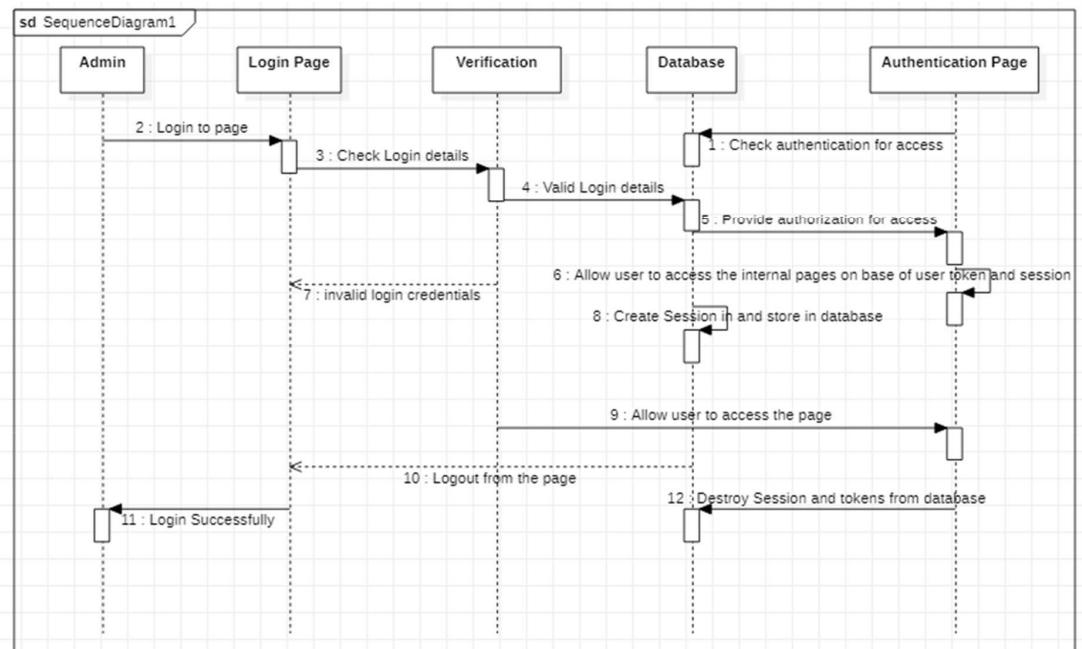
CLASS DIAGRAM:-



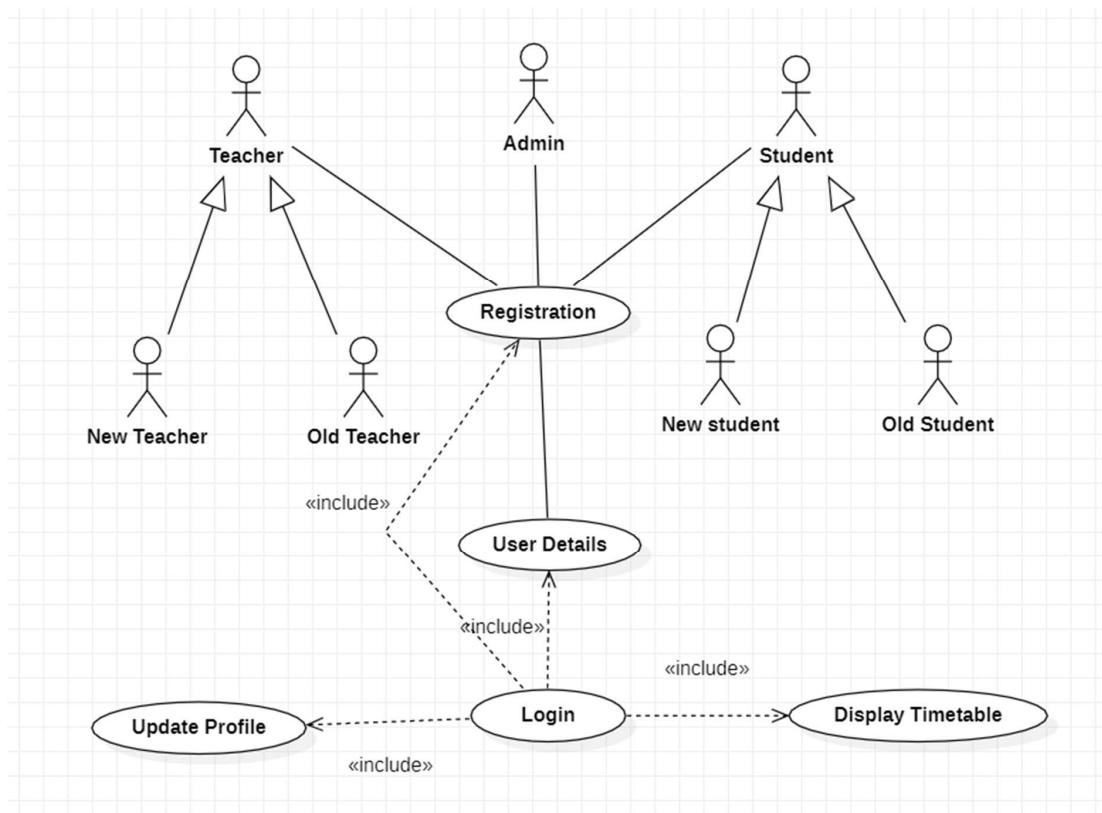
ACTIVITY DIAGRAM:-



SEQUENCE DIAGRAM:-



USE CASE DIAGRAM:-



Appendix C: Implementation

Server Database

The screenshot shows the phpMyAdmin interface for the 'timetable' database. The left sidebar lists various databases and tables. The main area displays the structure of the 'timetable' database, showing 9 tables: branch, login, student, table1, table2, table3, table4, table5, and teacher. A 'Create table' dialog is open in the center, prompting for a table name and number of columns (set to 4). The top navigation bar includes tabs for Structure, SQL, Search, Query, Export, Import, Operations, Privileges, Routines, Events, Triggers, Tracking, Designer, and More.

Admin Database

The screenshot shows the phpMyAdmin interface for the 'timetable' database, specifically viewing the 'login' table. The table contains one row with the following data: s_no (1), name (Admin), email (admin@edu.in), and password (1234). The top navigation bar includes tabs for Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and Triggers. A query log message at the top indicates "Showing rows 0 - 0 (1 total, Query took 0.0015 seconds)." Below the table, there are sections for "Query results operations" (Print, Copy to clipboard, Export, Display chart, Create view) and "Bookmark this SQL query" (Label input field and "Let every user access this bookmark" checkbox).

Teachers Database

The screenshot shows the phpMyAdmin interface for the 'teacher' table in the 'timetable' database. The table structure includes columns: s_no, t_id, name, email, subject, and password. The data consists of 12 rows, each representing a teacher with their details.

s_no	t_id	name	email	subject	password
1	202101	Sudhir Roy	roysudhir@edu.in	Date Science	1234
2	202102	Amrit Sharma	amrit@edu.in	Python	1234
3	202103	Sumit Ghosh	sumit@edu.in	Data Structure	1234
4	202104	Lalit Kumar	lalit@edu.in	DBMS	1234
5	202105	Abhishek Banerjee	abk@edu.in	Electronics Device	1234
6	202106	Manas Banerjee	manas@edu.in	Digital System Design	1234
7	202107	Vivek Kumar	vivek@edu.in	ESP	1234
8	202108	Arvind Mondal	arvind@edu.in	SDP	1234
9	202109	Chayan Choudhary	chayan@edu.in	Mathematics	1234
10	202110	Sanjeet Karmakar	sanjeet@edu.in	Network Theory	1234
11	202111	Ashish Ranjan	ashish@edu.in	Mechanics	4321
12	202112	Anuradha Gupta	gupta@edu.in	DSD	7890

Students Database

The screenshot shows the phpMyAdmin interface for the 'student' table in the 'timetable' database. The table structure includes columns: s_no, s_id, name, roll_no, course, year, email, and password. The data consists of 10 rows, each representing a student with their details.

s_no	s_id	name	roll_no	course	year	email	password
1	202001	Arpit Raj	3	CE	1st Year	arpitraj@edu.in	1234
2	202002	Aman Agarwal	5	CSE	2nd Year	aman@aol.com	1234
3	202003	Rahul Keshari	15	ECE	3rd Year	rahul@rj.in	1234
4	202004	Abid Ansari	2	EEE	4th Year	abid@ab.in	1234
6	202006	Sameer Singh	20	ME	2nd Year	sameer@edu.in	1234
7	202007	Aman Agarwal	8	CSE	4th Year	aman@edu.in	1234
8	202008	Hamid Alan	21	CE	3rd Year	hamid@edu.in	1234
9	202009	Pooja Agarwal	12	ECE	3rd Year	pooja@edu.in	1234
10	202010	Himanshu Gupta	23	CE	2nd Year	hmanshu@edu.in	4567

Timetable Database:- table1

The screenshot shows the phpMyAdmin interface for a database named 'timetable'. The left sidebar lists various databases and tables, including 'table1'. The main area displays the data from 'table1' with the following columns: sl_no, day, p1, p2, p3, p4, p5, and p6. The data is as follows:

sl_no	day	p1	p2	p3	p4	p5	p6
1	Monday	Electronics Device, ATS Sir	Electronics Device, ATS Sir	DSD, MB Maam	COA, AB Sir	Network Theory, VK Sir	ESP, VK Sir
2	Tuesday	C, SMT Sir	C, SMT Sir	ESP, SMD Sir	SDP, SVM Maam	Engineering Drawing, AM Sir	Data Structure, ANP Sir
3	Wednesday	Engineering Physics, LSP Maam	Mechanics, HST Sir	C Lab, VS, LM Sir	C Lab, VS, LM Sir	Engineering Mathematics, KC Sir	ESP, SMD Sir
4	Thursday	Engineering Mathematics, KC Sir	Data Structure, ANP Sir	Python, PMS Sir	Python, PMS Sir	Engineering Drawing, AM Sir	Engineering Mathematics, KC Sir
5	Friday	Physics Lab, BP, STM Sir	Physics Lab, BP, STM Sir	C, SMT Sir	Engineering Mathematics, Mechanics, HST Sir	ESP, SMD Sir	Engineering Mathematics, KC Sir

Timetable Database: -table2

The screenshot shows the phpMyAdmin interface for a database named 'timetable'. The left sidebar lists various databases and tables, including 'table2'. The main area displays the data from 'table2' with the following columns: sl_no, day, p1, p2, p3, p4, p5, and p6. The data is as follows:

sl_no	day	p1	p2	p3	p4	p5	p6
1	Monday	Electronics Device, ATS Sir	Electronics Device, ATS Sir	DSD, MB Maam	COA, AB Sir	Network Theory, VK Sir	ESP, VK Sir
2	Tuesday	Mathematics, CP Sir	Network Theory, SNK Sir	Power Electronics, BMK Sir	SDP, AMD Sir	Electronics Device Lab, BM, TP sir	Electronics Device Lab, BM, TP sir
3	Wednesday	DSD Lab, MB, LC Sir	DSD Lab, MB, LC Sir	Power Electronics, BMK Sir	COA Lab, AB, NM Sir	COA Lab, AB, NM Sir	Mathematics, CP Sir
4	Thursday	Python, PC Ma'am	Network Theory, SNK Sir	Electronics Device, ATS Sir	Analog Electronics, AT Sir	Microprocessor, BM Maam	DSD, MB Ma'am
5	Friday	Analog Electronics Lab, AT, SM Sir	Analog Electronics Lab, AT, SM Sir	Microprocessor Lab, BM, ATP Sir	Microprocessor Lab, BM, ATP Sir	Python Lab, PC, PM Sir	Python Lab, PC, PM Sir

Timetable Database: -table3

The screenshot shows the phpMyAdmin interface for the 'timetable' database. The left sidebar lists various tables, including 'table3'. The main area displays the data from 'table3' with the following structure:

sl_no	day	p1	p2	p3	p4	p5	p6
1	Monday	Transformer & Generator, PM Sir	DSD, BM	DSD, BM	EEM, SK Sir	ECA, AT Sir	SDP, PS Sir
2	Tuesday	Transformer & Generator, PM Sir	DSD Lab, BM, LM Sir	DSD Lab, BM, LM Sir	AEC, AG Sir	AEC, AG Sir	ESP, AM Sir
3	Wednesday	Data Structure, VM Ma'am	EEM, SK Sir	EEM, SK Sir	ECA, AT Sir	AEC Lab, AG, BK Sir	AEC Lab, AG, BK Sir
4	Thursday	Transformer & Generator, PM Sir	Data Structure Lab, VM, AK Sir	Data Structure Lab, VM, AK Sir	DSD, LM	Mathematics, ABK Sir	ESP, AM Sir
5	Friday	Mathematics, ABK Sir	Mathematics, ABK Sir	EEM, SK Sir	AEC, AG Sir	AEC, AG Sir	Transformer & Generator, PM Sir

Timetable Database: -table4

The screenshot shows the phpMyAdmin interface for the 'timetable' database. The left sidebar lists various tables, including 'table4'. The main area displays the data from 'table4' with the following structure:

sl_no	day	p1	p2	p3	p4	p5	p6
1	Monday	TMC, SRK Sir	TOM, SDW Sir	DME-I, SHG Sir	DME-I, SHG Sir	HT, VNR Sir	ESP, ARP Meam
2	Tuesday	HT, HSS Sir	HT, HSS Sir	MQC, KAM Ma'am	TOM-II, SDW Sir	TMC, SRK Sir	Python, RNY Sir
3	Wednesday	TOM-II, SDW Sir	MOC, KAM Ma'am	TMC, SRK Sir	HT, HSS Sir	MQC KAM Ma'am	DME-I, SHG Sir
4	Thursday	MQC, KAM Ma'am	TMC, SRK Sir	HT, HSS Sir	DME-I, SHG Sir	TOM-II, SDW JSS	Python, RNY Sir
5	Friday	DME-I, SHG Sir	TMC, SRK Sir	TOM-II, SDW Sir	MQC, KAM Ma'am	SDP, VRV Sir	ESP, ARP Ma'am

Timetable Database: -table5

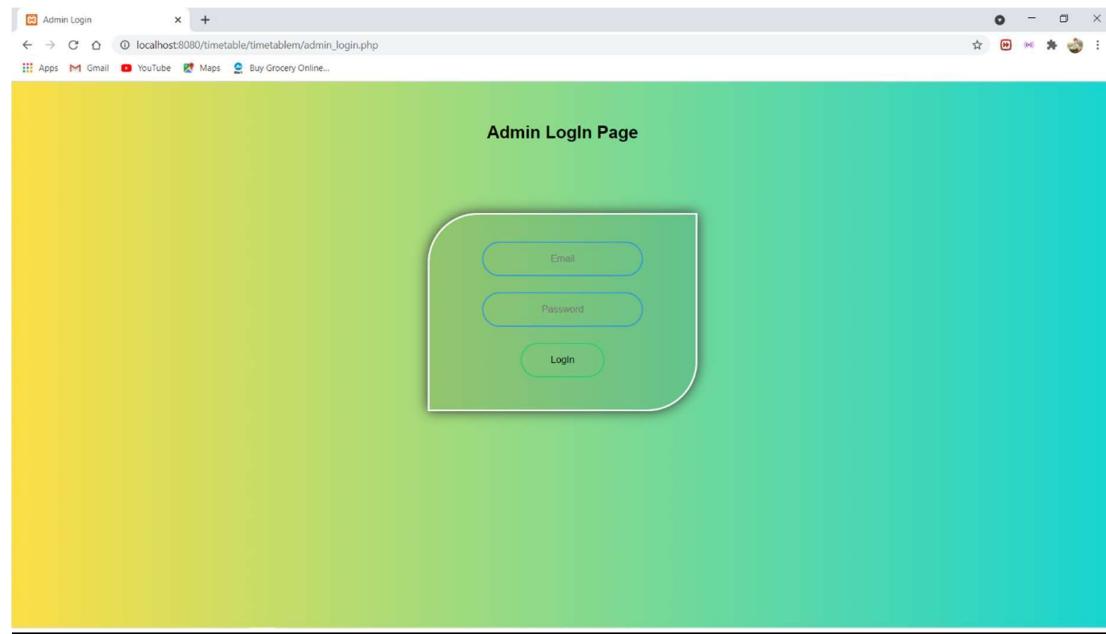
The screenshot shows the phpMyAdmin interface for a database named 'timetable'. The left sidebar lists various databases and tables, including 'table5'. The main area displays the data from 'table5' in a grid format. The columns are labeled: sl_no, day, p1, p2, p3, p4, p5, and p6. The data consists of 5 rows:

sl_no	day	p1	p2	p3	p4	p5	p6
1	Monday	PSC, HSN Sir	PSC, HSN Sir	SEDD-II, SMH Sir	OE-II, PS Sir	ES, AF Sir	FE, GPK Sir
2	Tuesday	SEDD-II C Lab, SMH Sir	SEDD-II C Lab, SMH Sir	OE-II, KRP Sir	ES, AF Sir	FET, MMS Sir	FE, MA Sir
3	Wednesday	FE, MA Sir	FET, MMS Sir	OE-III, RPS Sir	SEDD-II C Lab, SMH Sir	SEDD-II C Lab, SMH Sir	FE, GPK Sir
4	Thursday	OE-III, RPS Sir	PSC, HSN Sir	FET, MMS Sir	OE-II, KPS Sir	FE, MAK Sir	ESP, MPC Sir
5	Fridays	OE-II, RPS Sir	PSC, HSN Sir	OE-III, PMS Sir	ES, AFK Sir	FET, MMS Sir	SDP, DK Sir

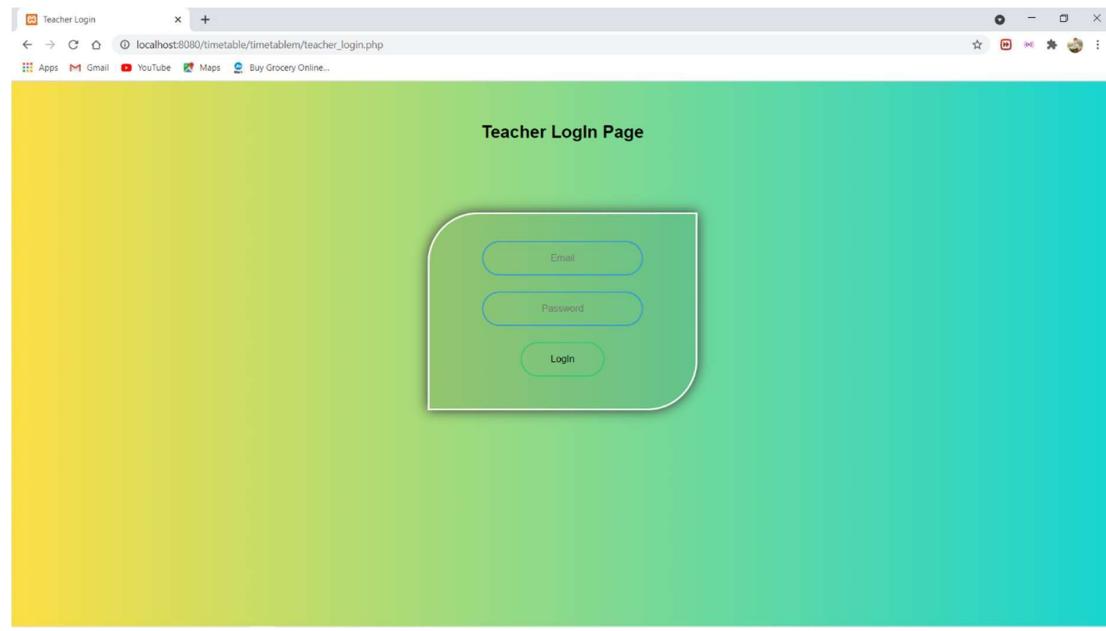
Index Page

The screenshot shows the 'Login Page' of the Timetable Management System. The page has a yellow-to-green gradient background. At the top center, it says 'WELCOME TO TIMETABLE MANAGEMENT SYSTEM'. Below this, there are three login links: 'Admin Login', 'Teacher Login', and 'Student Login'. At the bottom, there are three user profile icons with names: Anukalp Mishra, Apurba Ganguly, and Ankita Singh.

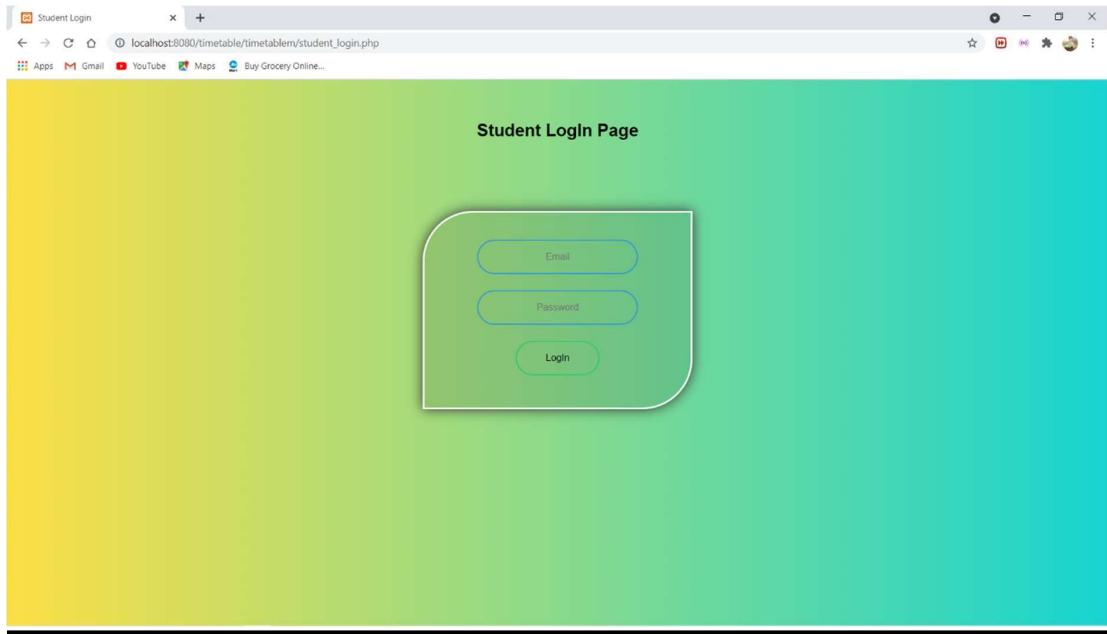
Admin Login Page



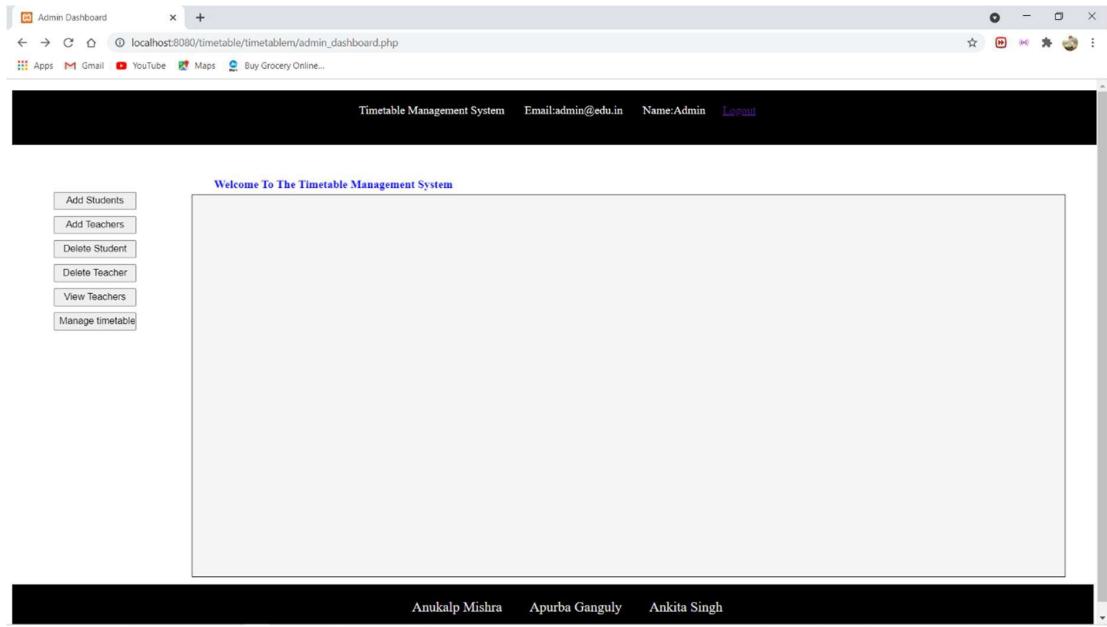
Teacher Login Page



Student Login Page



Admin Dashboard



Add Teacher Page

The screenshot shows a web browser window titled "Admin Dashboard" with the URL "localhost:8080/timetable/timetablen/admin_dashboard.php". The page header includes "Timetable Management System", "Email:admin@edu.in", "Name:Admin", and a "Logout" link. On the left, a sidebar menu lists "Add Students", "Add Teachers", "Delete Student", "Delete Teacher", "View Teachers", and "Manage timetable". The main content area is titled "Welcome To The Timetable Management !" and contains a form titled "Add Teachers". The form fields are: Name: [text input], E_ID: [text input], Email: [text input], Subject: [text input], Password: [text input]. Below the form is a "Add Teacher" button. At the bottom of the page, there is a footer bar with names: Anukalp Mishra, Apurba Ganguly, Ankita Singh.

Add Student Page

The screenshot shows a web browser window titled "Admin Dashboard" with the URL "localhost:8080/timetable/timetablen/admin_dashboard.php". The page header includes "Timetable Management System", "Email:admin@edu.in", "Name:Admin", and a "Logout" link. On the left, a sidebar menu lists "Add Students", "Add Teachers", "Delete Student", "Delete Teacher", "View Teachers", and "Manage timetable". The main content area is titled "Welcome To The Timetable N" and contains a form titled "Add Students". The form fields are: Name: [text input], S_ID: [text input], Roll No: [text input], Course: [text input], Year: [text input], Email: [text input], Password: [text input]. Below the form is an "Add Student" button. At the bottom of the page, there is a footer bar with names: Anukalp Mishra, Apurba Ganguly, Ankita Singh.

Delete Student

The screenshot shows a web browser window titled "Admin Dashboard" with the URL "localhost:8080/timetable/timetablen/admin_dashboard.php". The page header includes "Timetable Management System", "Email:admin@edu.in", "Name:Admin", and a "Logout" link. On the left, there is a sidebar with buttons for "Add Students", "Add Teachers", "Delete Student" (which is highlighted in red), "Delete Teacher", "View Teachers", and "Manage timetable". The main content area is titled "Welcome To The Timetable Management System" and contains a form with the placeholder "Enter Student ID:" followed by an input field and a "Delete" button. At the bottom of the page, there is a footer bar with the names "Anukalp Mishra", "Apurba Ganguly", and "Ankita Singh".

Delete Teacher

The screenshot shows a web browser window titled "Admin Dashboard" with the URL "localhost:8080/timetable/timetablen/admin_dashboard.php". The page header includes "Timetable Management System", "Email:admin@edu.in", "Name:Admin", and a "Logout" link. On the left, there is a sidebar with buttons for "Add Students", "Add Teachers", "Delete Student", "Delete Teacher" (which is highlighted in red), "View Teachers", and "Manage timetable". The main content area is titled "Welcome To The Timetable Management System" and contains a form with the placeholder "Enter Teacher ID:" followed by an input field and a "Delete" button. At the bottom of the page, there is a footer bar with the names "Anukalp Mishra", "Apurba Ganguly", and "Ankita Singh".

View Teacher

The screenshot shows a web browser window titled "Admin Dashboard" with the URL "localhost:8080/timetable/timetablen/admin_dashboard.php". The page header includes "Timetable Management System", "Email:admin@edu.in", "Name:Admin", and a "Logout" link. On the left, there is a sidebar with buttons for "Add Students", "Add Teachers", "Delete Student", "Delete Teacher", "View Teachers", and "Manage timetable". The main content area is titled "Teacher's Details" and contains a table with 12 rows of data:

E_ID	Name	Email	Subject
202101	Sudhir Roy	roysudhir@edu.in	Data Science
202102	Amrit Sharma	amrit@edu.in	Python
202103	Sumit Ghosh	sumit@edu.in	Data Structure
202104	Lalit Kumar	lalit@edu.in	DBMS
202105	Abhishek Banerjee	abk@edu.in	Electronics Device
202106	Manas Banerjee	manas@edu.in	Digital System Design
202107	Vivek Kumar	vivek@edu.in	ESP
202108	Arvind Mondal	arvind@edu.in	SDP
202109	Chayan Choudhary	chayan@edu.in	Mathematics
202110	Sangeet Kamnakar	sangeet@edu.in	Network Theory
202111	Ashish Ranjan	ashish@edu.in	Mechanics
202112	Anirudh Gupta	gupta@edu.in	DSD

At the bottom of the page, there is a footer bar with the names "Anukalp Mishra", "Apurba Ganguly", and "Ankita Singh".

Manage Timetable

The screenshot shows a web browser window titled "Admin Dashboard" with the URL "localhost:8080/timetable/timetablen/display_table.php". The page header includes "Timetable Management System", "Email:admin@edu.in", "Name:Admin", and a "Logout" link. On the left, there is a sidebar with buttons for "Select Course" (with a dropdown arrow) and "Display timetable". The main content area is titled "Welcome To The Timetable Management System" and contains a large, empty rectangular box for displaying the timetable.

At the bottom of the page, there is a footer bar with the names "Anukalp Mishra", "Apurba Ganguly", and "Ankita Singh".

Appendix D: Testing

Output 1

The screenshot shows a web-based Timetable Management System. At the top, there's a header bar with the title "Timetable Management System", the email "Email: admin@edu.in", and the name "Name: Admin". Below this is a "Logout" link. On the left, there are two buttons: "Select Course" and "Display timetable". The main content area is titled "Time Table" and displays a weekly timetable for five days: Monday through Friday. Each day has a row with columns for "DAY", "1ST PERIOD", "2ND PERIOD", "3RD PERIOD", "4TH PERIOD", "5TH PERIOD", "6TH PERIOD", and "ACTION". The "ACTION" column contains a green edit icon for each row. The timetable data is as follows:

DAY	1ST PERIOD	2ND PERIOD	3RD PERIOD	4TH PERIOD	5TH PERIOD	6TH PERIOD	ACTION
Monday	Electronics Device, ATS Sir	Electronics Device, ATS Sir	DSD, MB Maam	COA, AB Sir	Network Theory, VK Sir	ESP, VK Sir	
Tuesday	C, SMT Sir	C, SMT Sir	ESP, SMD Sir	SDP, SVM Maam	Engineering Drawing, AM Sir	Data Structure, ANP Sir	
Wednesday	Engineering Physics, LSP Maam	Mechanics, HST Sir	C Lab, VS, LM Sir	C Lab, VS, LM Sir	Engineering Mathematics, KC Sir	ESP, SMD Sir	
Thursday	Engineering Mathematics, KC Sir	Data Structure, ANP	Python, PMS Sir	Python, PMS Sir	Engineering Drawing, AM Sir	Engineering Mathematics, KC Sir	
Friday	Physics Lab, BP, STM Sir	Physics Lab, BP, STM Sir	C, SMT Sir	Engineering Mathematics, KC Sir	Mechanics, HST Sir	ESP, SMD Sir	

At the bottom of the page, there is a footer bar with the names "Anukalp Mishra", "Apurba Ganguly", and "Ankita Singh".

Output 2

This screenshot shows the same Timetable Management System interface as Output 1, but with a different set of subjects and teachers. The weekly timetable for five days is displayed in a table with the same structure as Output 1. The "ACTION" column contains green edit icons. The timetable data is as follows:

DAY	1ST PERIOD	2ND PERIOD	3RD PERIOD	4TH PERIOD	5TH PERIOD	6TH PERIOD	ACTION
Monday	TMC, SRK Sir	TOM, SDW Sir	DME-I, SHG Sir	DME-I, SHG Sir	HT, VNR Sir	ESP, ARP Maam	
Tuesday	HT, HSS Sir	HT, HSS Sir	MOC, KAM Ma'am	TOM-II, SDW Sir	TMC, SRK Sir	Python, RNY Sir	
Wednesday	TOM-II, SDW Sir	MQC, KAM Ma'am	TMC, SRK Sir	HT, HSS Sir	MQC, KAM Ma'am	DME-I, SHG Sir	
Thursday	MOC, KAM Ma'am	TMC, SRK Sir	HT, HSS Sir	DME-I, SHG Sir	TOM-II, SDW, JSS	Python, RNY Sir	
Friday	DME-I, SHG Sir	TMC, SRK Sir	TOM-II, SDW Sir	MQC, KAM Ma'am	SDP, VRV Sir	ESP, ARP Ma'am	

At the bottom of the page, there is a footer bar with the names "Anukalp Mishra", "Apurba Ganguly", and "Ankita Singh".

Update Timetable

The screenshot shows a web browser window titled "Update". The address bar displays "localhost:8080/timetable/timetablen/update3.php?sl_no=1". Below the address bar, there are links for "Apps", "Gmail", "YouTube", "Maps", and "Buy Grocery Online...". The main content area is titled "Update Timetable". It features a table with 7 columns: DAY, 1ST PERIOD, 2ND PERIOD, 3RD PERIOD, 4TH PERIOD, 5TH PERIOD, 6TH PERIOD, and UPDATE. The "DAY" column contains "Monday". The "1ST PERIOD" column contains "TMC, SRK Sir". The "2ND PERIOD" column contains "TOM, SDW Sir". The "3RD PERIOD" column contains "DME-I, SHG Sir". The "4TH PERIOD" column contains "DME-I, SHG Sir HT". The "5TH PERIOD" column contains "HT, VNR Sir". The "6TH PERIOD" column contains "ESP, ARP Maam". The "UPDATE" column contains a blue "Update" button.

Teacher Dashboard

The screenshot shows a web browser window titled "Teacher Dashboard". The address bar displays "localhost:8080/timetable/timetablen/teacher_dashboard.php". Below the address bar, there are links for "Apps", "Gmail", "YouTube", "Maps", and "Buy Grocery Online...". The main content area has a black header bar with the text "Timetable Management System", "Email: sumit@edu.in", "Name: Sumit Ghosh", and a "Logout" link. Below the header is a white rectangular area with the text "Welcome To The Timetable Management System". On the left side of this area, there are three buttons: "View Profile", "Update Profile", and "View Timetable". At the bottom of the white area, there is a black footer bar with the names "Anukalp Mishra", "Apurba Ganguly", and "Ankita Singh".

Teacher Timetable

The screenshot shows a web-based Timetable Management System. At the top, there's a header bar with the title "Timetable Dashboard" and a URL "localhost:8080/timetable/timetablen/view_table.php". Below the header, a black navigation bar displays "Timetable Management System", "Email: sumit@edu.in", "Name:Sumit Ghosh", and a "Logout" link. On the left, there are two buttons: "Select Course" and "Display timetable". The main content area is titled "Welcome To The Timetable Management System" and features a "Time Table" grid. The grid has columns for "DAY" (Monday through Friday) and "PERIOD" (1ST PERIOD to 6TH PERIOD). Each cell contains a subject name and teacher information. For example, Monday's 1st period is "Electronics Device, ATS Sir". The grid is set against a light blue background.

DAY	1ST PERIOD	2ND PERIOD	3RD PERIOD	4TH PERIOD	5TH PERIOD	6TH PERIOD
Monday	Electronics Device, ATS Sir	Electronics Device, ATS Sir	DSO, MB Maam	COA, AB Sir	Network Theory, VK Sir	ESP, VK Sir
Tuesday	C, SMT Sir	C, SMT Sir	ESP, SMD Sir	SDP, SVM Maam	Engineering Drawing, AM Sir	Data Structure, ANP Sir
Wednesday	Engineering Physics, LSP Maam	Mechanics, HST Sir	C Lab, VS, LM Sir	C Lab, VS, LM Sir	Engineering Mathematics, KC Sir	ESP, SMD Sir
Thursday	Engineering Mathematics, KC Sir	Data Structure, ANP	Python, PMS Sir	Python, PMS Sir	Engineering Drawing, AM Sir	Engineering Mathematics, KC Sir
Friday	Physics Lab, BP, STM Sir	Physics Lab, BP, STM Sir	C, SMT Sir	Engineering Mathematics, KC Sir	Mechanics, HST Sir	ESP, SMD Sir

Student Dashboard

The screenshot shows a web-based Student Dashboard. At the top, there's a header bar with the title "Student Dashboard" and a URL "localhost:8080/timetable/timetablen/student_dashboard.php". Below the header, a black navigation bar displays "Timetable Management System", "Email: rahul@rj.in", "Name:Rahul Keshari", and a "Logout" link. On the left, there are three buttons: "View Profile", "Update Profile", and "View Timetable". The main content area is titled "Welcome To The Timetable Management System". There is a large, empty white rectangular box where the timetable would normally be displayed. At the bottom, a black footer bar contains the names "Anukalp Mishra", "Apurba Ganguly", and "Ankita Singh".

Student Timetable

The screenshot shows a web-based Timetable Management System. At the top, there's a header bar with a 'Timetable Dashboard' icon, a search bar, and links for 'localhost:8080/timetable/timetablem/view_table.php', 'Email: rahul@rj.in', 'Name: Rahul Keshari', and 'Logout'. Below the header is a black navigation bar with 'Timetable Management System', 'Email: rahul@rj.in', and 'Name: Rahul Keshari'. On the left, there are buttons for 'Select Course' (with a dropdown arrow) and 'Display timetable'. The main content area is titled 'Welcome To The Timetable Management System' and contains a 'Time Table' grid. The grid has columns for 'DAY' (Monday through Friday) and periods (1ST PERIOD, 2ND PERIOD, 3RD PERIOD, 4TH PERIOD, 5TH PERIOD, 6TH PERIOD). Each cell in the grid contains a subject name and teacher's name. At the bottom of the page, there's a footer bar with names: 'Anukalp Mishra', 'Apurba Ganguly', and 'Ankita Singh'.

DAY	1ST PERIOD	2ND PERIOD	3RD PERIOD	4TH PERIOD	5TH PERIOD	6TH PERIOD
Monday	Transformer & Generator, PM Sir	DSD, BM	DSD, BM	EEM, SK Sir	ECA, AT Sir	SDP, PS Sir
Tuesday	Transformer & Generator, PM Sir	DSD Lab, BM, LM Sir	DSD Lab, BM, LM Sir	AEC, AG Sir	AEC, AG Sir	ESP, AM Sir
Wednesday	Data Structure, VM Ma'am	EEM, SK Sir	EEM, SK Sir	ECA, AT Sir	AEC Lab, AG, BK Sir	AEC Lab, AG, BK Sir
Thursday	Transformer & Generator, PM Sir	Data Structure Lab, VM, AK Sir	Data Structure Lab, VM, AK Sir	DSD, LM Ma'am	Mathematics, ABK Sir	ESP, AM Sir
Friday	Mathematics, ABK Sir	Mathematics, ABK Sir	EEM, SK Sir	AEC, AG Sir	AEC, AG Sir	Transformer & Generator, PM Sir

6. FUTURE SCOPE

The future scope of this Time Management System can cover many features which would connect Teachers and Students towards digitalization. In which user account can keep a record about the user details and there organization timetable. The proposed system requires very less paper work. All the data is feted into the computer immediately and timetable can be generated through computers. Moreover work becomes very easy because there is no need to keep data on papers. Computer operator control will be there so no chance of errors. Moreover storing and retrieving of information is easy. So work can be done speedily and in time.

7. BIBLIOGRAPHY

- <https://www.w3schools.com/html/>
- <https://www.tutorialspoint.com/css/index.htm>
- <https://www.codecademy.com/learn/learn-php>
- https://developer.mozilla.org/en-US/docs/Learn/CSS/Building_blocks/The_box_model
- <https://www.studentstutorial.com/php/login-logout-with-session>