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**Affiliated to Savitribai Phule Pune University, Pune [2021-2022]**

**DBMS Mini Project Report**

On

**DPU ERP System**

By

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# INTRODUCTION

- In this project, we tend to create associate faculty ERP systems by using languages like markup language, CSS, Javascript, PHP, Apache, MySQL, and draw.io.
- Enterprise resource designing (ERP) faculty internet application is the one quiet internet application that integrates all the modules and functionalities of faculty system on one system which will be handled by the executive head and accessed by the scholars and colleges with valid user id and positive identification.
- In this, the data of scholars are saved additionally the program, marks of scholars, attendance, their previous grades are uploaded on their profile
- Students may apply for a bonafide certificate during this ERP system, the information of scholars is held on within the backend in MySQL.
- The admin of this technique will perform deletion operation additionally
- It is convenient to store knowledge during this type as a result of it's terribly simple for every and each one to access it

# ABSTRACT

Enterprise Resource Planning (ERP) system consists of different sets of software that are used to integrate the business functions in a company or organization. Given that these solutions provide an integrated solution to the needs of an organization, these systems are in high demand by all organizations. The full potential of these systems can only be realized only if they are successfully implemented. However, the implementation process is costly and time-consuming and thus requires careful planning and organization. If successfully implemented, ERP systems provide many benefits to those organizations that adopt them. On the other hand, if the implementation process is not successful, the venture can prove costly. By examining the existing literature on this topic, this paper focuses on how ERP systems can be successfully implemented in organizations and the critical success factors. The information provided in this paper may be used to guide organizations in the implementation of ERP systems.

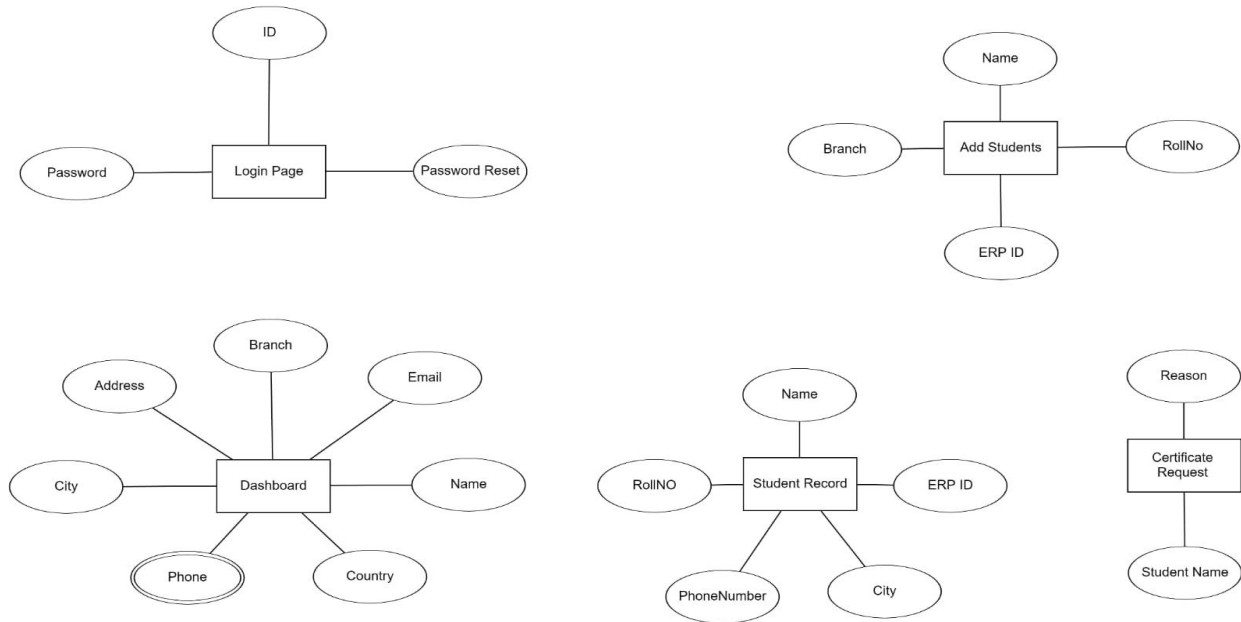
## SOFTWARE REQUIREMENT:

- JAVASCRIPT -JavaScript is a text-based programming language used both on the client-side and server-side that allows you to make web pages interactive. Where HTML and CSS are languages that give structure and style to web pages, JavaScript gives web pages interactive elements that engage a user
- XAMPP - XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages
- APACHE -Apache HTTP Server is a free and open-source web server that delivers web content through the internet. It is commonly referred to as Apache and after development, it quickly became the most popular HTTP client on the web.
- PHP -PHP (Hypertext Preprocessor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into HTML, making it easier to add functionality to web pages without needing to call external files for data.It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.
- MySQL -MySQL is a relational database management system based on SQL – Structured Query Language. The application is used for a wide range of purposes, including data warehousing, e-commerce,

and logging applications. The most common use for MySQL however, is for the purpose of a web database.

- VSCODE - Visual Studio Code is a streamlined code editor with support for development operations like debugging, task running, and version control. It aims to provide just the tools a developer needs for a quick code-build-debug cycle and leaves more complex workflows to fuller featured IDEs, such as Visual Studio IDE.
- Firefox -Mozilla Firefox is a free open-source browser whose development is overseen by the Mozilla Corporation. ... First released in November 2004, Firefox is completely customizable with themes, plug-ins, and add-ons. Firefox uses Gecko to render web pages and implements both current and upcoming Web standards
- Draw.io - draw.io is a free diagramming application that allows users to create and share diagrams within a web browser. The online tool works with G Suite/Google Drive and Dropbox and is deeply integrated and audit-friendly in Atlassian's Confluence and Jira products.

# ER DIAGRAM(Conceptual Diagram)



## TABLES IN MYSQL

```

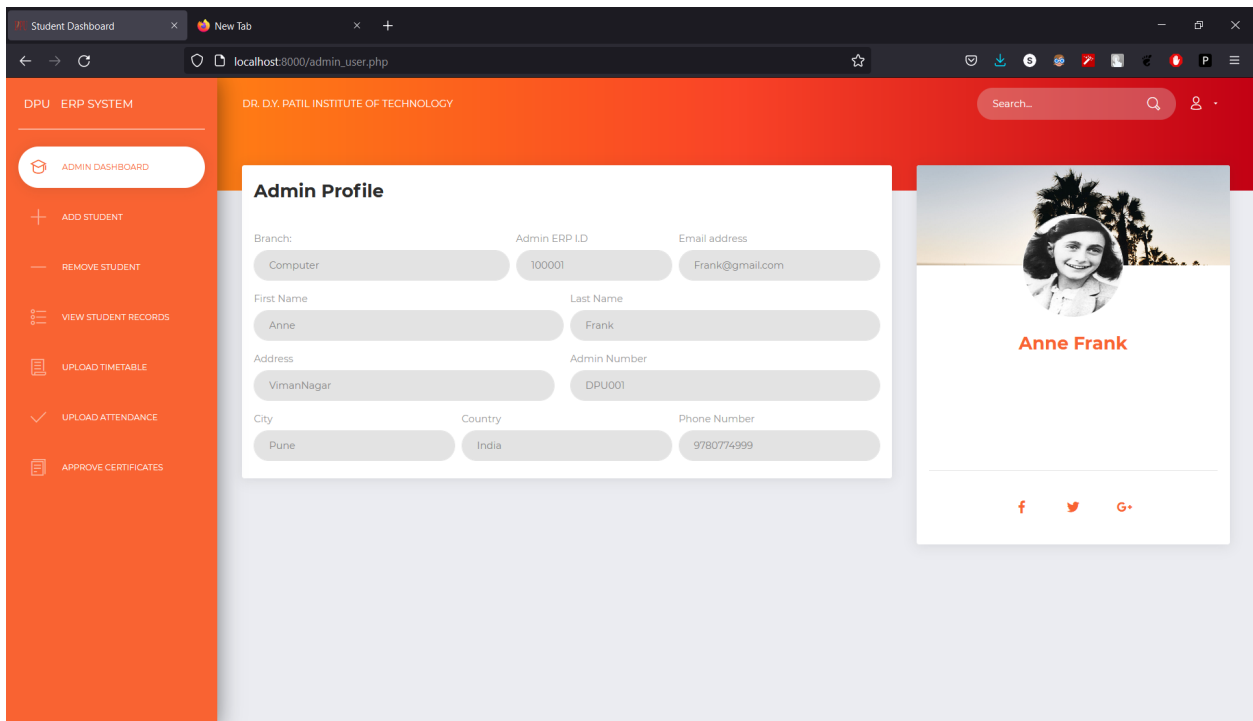
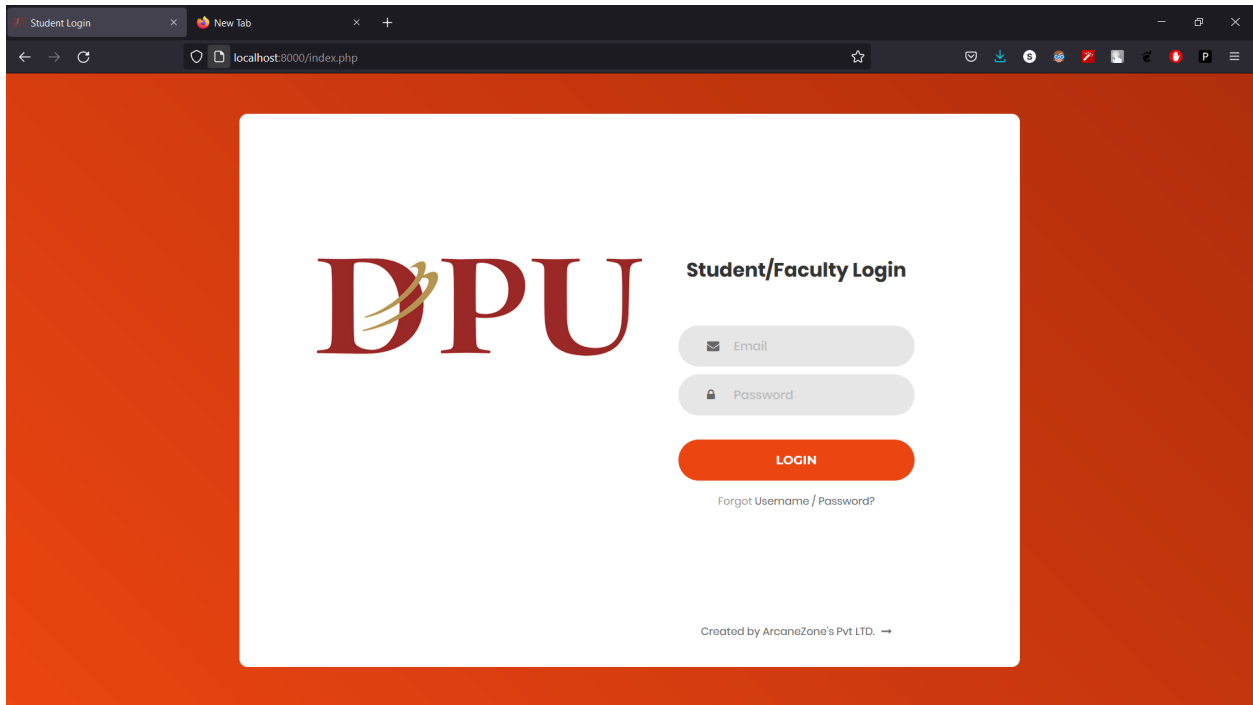
Windows PowerShell
Database changed
MariaDB [dpuserp]> show tables;
+-----+
| Tables_in_dpuserp |
+-----+
| certificate_user   |
| user_details      |
+-----+
2 rows in set (0.002 sec)

MariaDB [dpuserp]> select * from user_details;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| email          | password | branch | erpid | firstname | lastname | address | city | country | rollno | attendance | phoneno | photo          | grade | user_type |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Frank@gmail.com | 1234    | Computer | 100001 | Anne      | Frank    | VimanNagar | Pune | India | DPU001 | NULL | 9788778999 | ./user_photo/frank.jpg | ./grade/gradecard.jpg | A |
| Mausam@gmail.com | 1234    | Computer | 100002 | Mausam    | Singh    | Pimpri | Pune | India | TC0062 | 99 | 8723041213 | ./user_photo/mausam.jpg | ./grade/gradecard.jpg | S |
| Siddhi@gmail.com | 1234    | Computer | 100003 | Siddhi Anil | Bairagi | Viman Nagar | Pune | India | TC0004 | NULL | 9146713546 | ./user_photo/siddhi.jpg | ./grade/gradecard.jpg | S |
| Shubham@gmail.com | 1234    | Computer | 100004 | Shubham   | Ovhal    | Bheed | Ahmed Nagar | India | TC0063 | NULL | 7666198518 | ./user_photo/shubham.jpg | ./grade/gradecard.jpg | S |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)

MariaDB [dpuserp]> select * from certificate_user;;
+-----+-----+-----+
| student_name | reason | status |
+-----+-----+-----+
| Siddhi       | BusPass | y       |
| Siddhi Anil Bairagi | Bonafide Buspass | y       |
| Mausam       | Buspass | y       |
+-----+-----+-----+
3 rows in set (0.001 sec)

ERROR: No query specified
MariaDB [dpuserp]>
  
```

# GRAPHICAL USER INTERFACE



## DPU ERP System

The screenshot shows a web browser window with the URL `localhost:8000/Admin_add_user.php`. The page has a red header with the text "DR. D.Y. PATIL INSTITUTE OF TECHNOLOGY" and a search bar. A left sidebar contains navigation links: "ADMIN DASHBOARD", "ADD STUDENT" (highlighted with a plus icon), "REMOVE STUDENT", "VIEW STUDENT RECORDS", "UPLOAD TIMETABLE", "UPLOAD ATTENDANCE", and "APPROVE CERTIFICATES". The main content area is titled "Add Students In Institute" and features a white form titled "Add Students". The form contains the following fields: "Branch" (with a dropdown menu), "ERP ID" (with a dropdown menu labeled "erpid"), "Email address", "First Name" (with a dropdown menu labeled "First Name"), "Last Name" (with a dropdown menu labeled "Last Name"), "Address" (with a dropdown menu labeled "Home Address"), "Phone Number" (with a dropdown menu labeled "Home Address"), "City" (with a dropdown menu labeled "City"), "Country" (with a dropdown menu labeled "Country"), and "Roll Number" (with a dropdown menu labeled "Roll Number"). A green button labeled "Add Student" is at the bottom of the form.

The screenshot shows a web browser window with the URL `localhost:8000/Admin_Remove_Student.php`. The page has a red header with the text "DR. D.Y. PATIL INSTITUTE OF TECHNOLOGY" and a search bar. A left sidebar contains navigation links: "ADMIN DASHBOARD", "ADD STUDENT", "REMOVE STUDENT" (highlighted with a minus icon), "VIEW STUDENT RECORDS", "UPLOAD TIMETABLE", "UPLOAD ATTENDANCE", and "APPROVE CERTIFICATES". The main content area is titled "Remove Students From Institute" and features a white form titled "Remove Student". The form contains a single field: "ERP ID" (with a dropdown menu labeled "Enter ERP Number"). A green button labeled "Remove Student" is at the bottom of the form.



## DPU ERP System

Students Record

| ERP ID | Students name       | Students roll number | Students phone number | City        | Attendance | Branch   |
|--------|---------------------|----------------------|-----------------------|-------------|------------|----------|
| 100002 | Mausam Singh        | TCOB62               | 8723041213            | Pune        | 99         | Computer |
| 100003 | Siddhi Anil Bairagi | TCOB04               | 9146713546            | Pune        | 99         | Computer |
| 100004 | Shubham Ovhal       | TCOB63               | 7666198518            | Ahmed Nagar | 67         | Computer |
| 100005 | Nitesh Kuamr        | TCOC43               | 9785123476            | Pune        | 65         | IT       |

Upload Time Table

Upload File

Please select your file

No file selected.

## DPU ERP System

The screenshot shows the 'Fill Student Attendance' interface of the DPU ERP System. The browser address bar indicates the URL is `localhost:8000/Admin_upload_Attendance.php`. The left sidebar contains a menu with options: ADMIN DASHBOARD, ADD STUDENT, REMOVE STUDENT, VIEW STUDENT RECORDS, UPLOAD TIMETABLE, **UPLOAD ATTENDANCE** (highlighted with a green checkmark), and APPROVE CERTIFICATES. The main content area has a red header with the text 'DR. D.Y. PATIL INSTITUTE OF TECHNOLOGY' and a search bar. Below the header, the title 'Fill Student Attendance' is displayed. A white form titled 'Insert Student Attendance' is centered on the page. It contains two input fields: 'Roll Number' (with a placeholder 'Roll Number') and 'Attendance In Percentage(%)' (with a placeholder 'Insert Attendance in Percentage'). A green 'Insert' button is positioned below these fields.

The screenshot shows the 'User Profile' interface of the DPU ERP System. The browser address bar indicates the URL is `localhost:8000/user.php`. The left sidebar contains a menu with options: **PROFILE** (highlighted with a green checkmark), ACADEMIC CALENDAR, CERTIFICATE REQUEST, GRADE CARD, TIMETABLE, and ATTENDANCE. The main content area has a red header with the text 'DR. D.Y. PATIL INSTITUTE OF TECHNOLOGY' and a search bar. Below the header, the title 'User Profile' is displayed. A white form titled 'User Profile' is centered on the page. It contains several input fields for user information: Branch (Computer), ERP ID (100003), Email address (Siddhi@gmail.com), First Name (Siddhi Anil), Last Name (Bairagi), Address (Viman Nagar), Phone Number (9146713546), City (Pune), Country (India), and Roll Number (TCOB04). To the right of the form is a circular profile picture of a man, with the name 'Siddhi Anil Bairagi' displayed below it. At the bottom of the page, there is a footer with the text 'ARCANEZONE'S' and '© 2021, Designed by DPU, Coded by Arcane and Friends.'

## DPU ERP System

The screenshot shows a web browser window with the URL `localhost:8000/Certificate_request.php`. The page has a red header with the text "DR. D.Y. PATIL INSTITUTE OF TECHNOLOGY" and a search bar. A left sidebar contains navigation links: "PROFILE", "ACADEMIC CALENDER", "CERTIFICATE REQUEST" (highlighted), "GRADE CARD", "TIMETABLE", and "ATTENDANCE". The main content area has a red background with the title "Certificate Request". A white form titled "Request Certificate" is centered, containing two input fields: "Student Name" (with placeholder "Certificate Name") and "Reason for Certificate" (with placeholder "Reason"). A green "Submit" button is at the bottom of the form.

The screenshot shows a web browser window with the URL `localhost:8000/Attendance.php`. The page has a red header with the text "DR. D.Y. PATIL INSTITUTE OF TECHNOLOGY" and a search bar. A left sidebar contains navigation links: "PROFILE", "ACADEMIC CALENDER", "CERTIFICATE REQUEST", "GRADE CARD", "TIMETABLE", and "ATTENDANCE" (highlighted). The main content area has a red background with the title "Student Attendance". A white form titled "Student Attendance" is centered, containing two input fields: "Roll Number" (with placeholder "TCOB04") and "Attendance In Percentage(%)" (with placeholder "99").

# TESTING DOCUMENT:

|                   |                     |
|-------------------|---------------------|
| Project-Name      | ERP-SYSTEM          |
| Module-Name       | LOGIN               |
| Referred Document | NO                  |
| Created by        | Siddhi Anil Bairagi |
| Date of creation: | 27-11-2021          |
| Date of review:   | 28-11-2021          |

| ID      | TEST SCENARIO    | TEST CASE                                   | PRE-CONDITION           | TEST STEPS  | TEST DATA                              | EXPECTED RESULT                               | POST CONDITION                         | ACTUAL RESULT                                 | STATUS (PASS/FAIL) |
|---------|------------------|---|-------------------------|---|--|---|--|---|--------------------|
| login_1 | Verify the login | Enter valid username and password           | Need to be a valid-user | 1. Enter the username<br>2. Enter password<br>3. Click the login button | <Valid Username><br><Valid password>   | Successful login                              | User Page is shown                     | Successful login                              | Pass               |
| login_2 | Verify the login | Enter a valid username and Invalid password | Need to be a valid-user | 1. Enter the username<br>2. Enter password<br>3. Click the login button | <Valid Username><br><Invalid password> | A message to be shown either of two is wrong. | The same Page is shown with a message. | A message to be shown either of two is wrong. | Pass               |
| login_3 | Verify the login | Enter invalid username and Valid password   | Need to be a valid-user | 1. Enter the username<br>2. Enter password<br>3. Click the login button | <Invalid Username><br><Valid password> | A message to be shown either of two is wrong. | The same Page is shown with a message. | A message to be shown either of two is wrong. | Pass               |
| login_4 | Verify the login | Enter invalid username and Invalid password | Need to be a valid-user | 1. Enter the username<br>2. Enter password<br>3. Click the login button | <Valid Username><br><Valid password>   | A message to be shown either of two is wrong. | The same Page is shown with a message. | A message to be shown either of two is wrong. | Pass               |

## DPU ERP System

|                   |                   |
|-------------------|-------------------|
| Project-Name      | ERP-SYSTEM        |
| Module-Name       | Student's Section |
| Referred Document | NO                |
| Created by        | Mousam Singh      |
| Date of creation: | 27-11-2021        |
| Date of review:   | 28-11-2021        |

| ID        | TEST SCENARIO | TEST CASE  | PRE-CONDITION  | TEST STEPS   | TEST DATA                  | EXPECTED RESULT                        | POST CONDITION   | ACTUAL RESULT   | STATUS (PASS/FAIL) |
|-----------|---------------|--|--|--|----------------------------|--|--|---|--------------------|
| student_1 | After login   | Data is correct of the user. who has logged in?                        | User should exist in the database  | Verify the data.   | No data                    | All data should be displayed correctly | All data is displayed correctly.                             | All data is displayed correctly.                            | Pass               |
| student_2 | After login   | Option given to the User should be acc. To category.                   | The user should exist in a particular group.i.e user_type= student                                     | Verify the option given to the user.                         | No data                    | All data should be displayed correctly | All options are displayed correctly.                         | All options are displayed correctly.                        | Pass               |
| student_3 | After login   | Check whether the student can request a certificate.                   | User should exist in the particular group. i.e user_type= student                                      | Give student name<br>Enter reason<br>Click submit button     | <student name><br><reason> | All data should be submitted           | All options are submitted correctly and the form is cleared. | All options are submitted correctly and the form is cleared | Pass               |
| student_4 | After login   | Check whether the student can see the timetable And academic calendar. | The PDF file should be uploaded.   | Click the timetable tab. And check for timetable             | No Data                    | Users can see both documents.          | Users can see both documents                                 | Users can see both documents                                | Pass               |
| student_5 | After login   | Check whether the student can see Attendance..                         | The user should exist in a particular group. i.e user_type= student and attendance should be uploaded. | Just check the attendance by clicking on the attendance tab. | No Data                    | All data should be shown.              | All data is shown properly.                                  | All data is shown properly.                                 | Pass               |

## DPU ERP System

|                   |                 |
|-------------------|-----------------|
| Project-Name      | ERP-SYSTEM      |
| Module-Name       | Admin's Section |
| Referred Document | NO              |
| Created by        | Shubham Ovhal   |
| Date of creation: | 27-11-2021      |
| Date of review:   | 28-11-2021      |

| ID        | TEST SCENARIO | TEST CASE  | PRE-CONDITION   | TEST STEPS   | TEST DATA                  | EXPECTED RESULT  | POST CONDITION                       | ACTUAL RESULT                        | STATUS (PASS/FAIL) |
|-----------|---------------|--|---|--|----------------------------|--|--------------------------------------|--------------------------------------|--------------------|
| admin_1   | After login   | Data is correct of the user. who has logged in?      | User should exist in the database   | Verify the data.   | No data                    | All data should be displayed correctly                           | All data is displayed correctly.     | All data is displayed correctly.     | Pass               |
| admin_2   | After login   | Option given to the User should be acc. To category. | Users should exist in a particular group.i.e user_type= student                                   | Verify the option given to the user.   | No data                    | All data should be displayed correctly                           | All options are displayed correctly. | All options are displayed correctly. | Pass               |
| admin_3   | After login   | Check whether the admin can approve a certificate.   | User should exist in the particular group.i.e user_type= admin                                    | Just give a response . Like, approve, or deny.                               | <student name><br><reason> | All data should be cleared after clicking on one of the buttons. | All data is clear after responding.  | All data cleared responding .        | Pass               |
| student_4 | After login   | Check whether the admin can upload the timetable.    | The PDF file should be uploaded.  | Click the timetable tab. And upload for timetable                            | <PDF file>                 | PDF file gets uploaded with the correct name.                    | We can see the updated timetable.    | We can see the updated timetable.    | Pass               |
| student_5 | After login   | Check whether the admin can upload Attendance.       | Users should exist in a particular group. i.e user_type= admin and attendance should be uploaded. | Give student roll no. and then enter the attendance. And then submit button. | <Roll no.><br><Attendance> | All data should be uploaded.                                     | All data is uploaded                 | All data is uploaded                 | Pass               |

## CONCLUSION

Through this project, we learned how to use languages like PHP, CSS, HTML and maintain the project's GUI and Front-end with ease. Along with this, we learned how to implement Database queries by using MySQL to feed, maintain and recover data.