



A Mini Project Report
on
“Student Information Management System”

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ABSTRACT

In current situation, there is a need for a platform to connect students and teachers virtually. The system is developed for students as well as teachers / mentors to help them communicate with each other and share information, or ask/resolve queries. Students can also submit files to teachers along with a message and teachers can review them. Teachers will also be able to post notices/ reminders regarding college and those will be visible to students when they log in. Teachers will be provided an admin access to the system and will be able to view all students and delete records.

The student management system is developed using PHP as backend, HTML, CSS, JS as frontend and MySQL as relational database. By virtue of this project, we were able to implement Relational database management concepts, functionalities and applications, as we learn it in the current semester. While developing this project, we also focused on HCI and UI/UX aspects along with the DBMS concept.

ACKNOWLEDGEMENT

We would like to thank our teacher and guide **Dr. Emmanuel. M.**, who gave us his valuable suggestions and ideas when we were in need of them. He encouraged us to work on this project as well as helped us out in the technical problems we faced.

We are immensely grateful to our college and our HOD **Dr. A. M. Bagade** for providing us with the opportunity to work on this project and providing us with the necessary resources for it. We are thankful to all involved in this project as without their inspiration and valuable suggestions, it would not have been possible to develop the project within the prescribed time.

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INTRODUCTION

❖ Purpose

The student details are often very difficult to handle and record, especially for large colleges where there are numerous students across various branches. Data entry, and retrieval is cumbersome and most of the existing systems do not allow sending notifications and receiving different files from students.

Through this project we have addressed the issues existing in the current system by making a visually pleasing user interface so that even a non-technical person can handle the system. We have provided various features like student notifications, admin authorities etc along with basic database CRUD operations. Our system can be modified to be used for other purposes too with a little modification.

❖ Scope

Our system performs the following

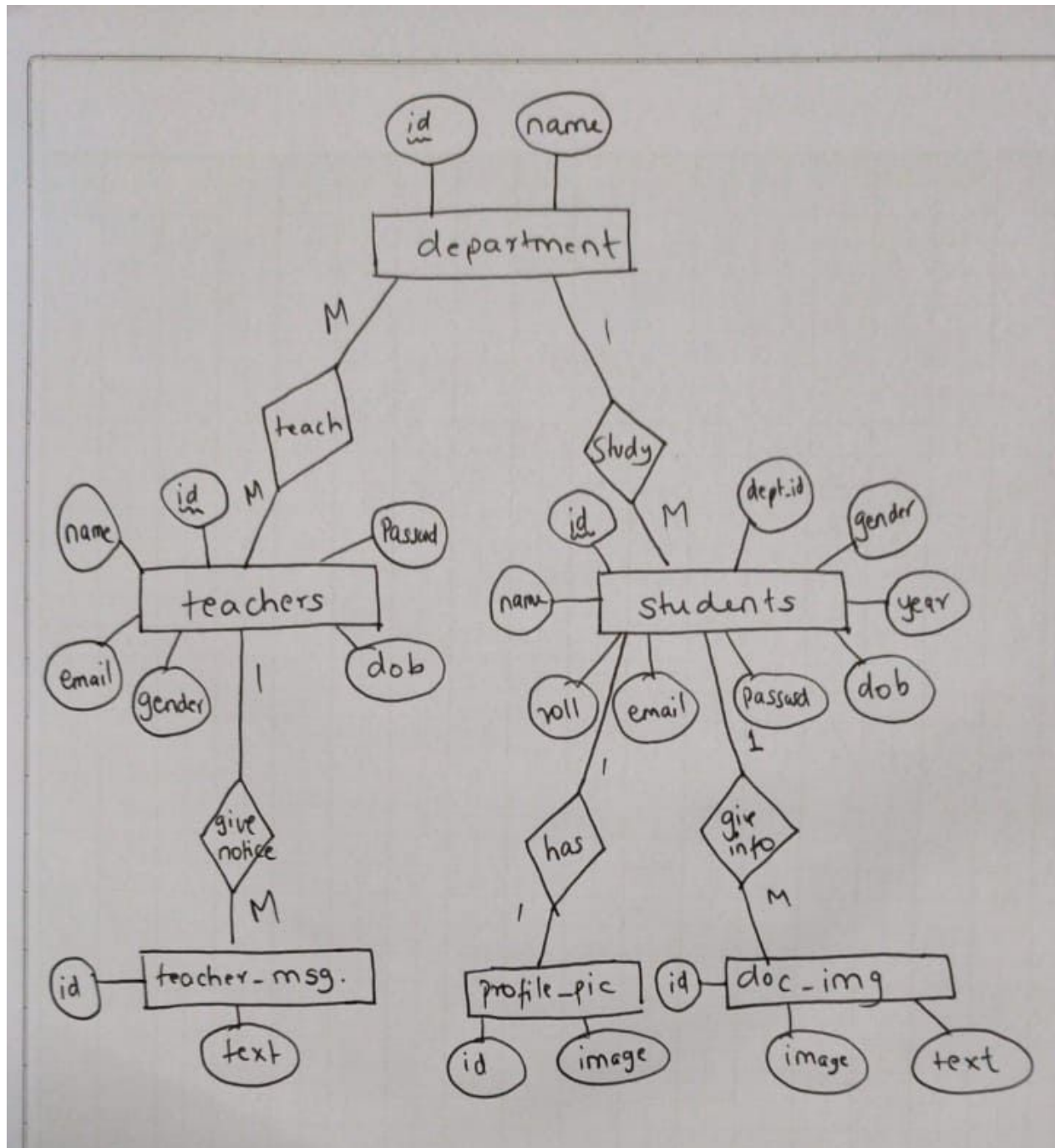
- Adding students to the system via login
- Adding teachers to the system via a separate login
- Ability to add profile photos
- Update the recorded information
- Deleting student entries
- Displaying all the student records
- A beautiful interface which adheres to all the HCI standards.

❖ **Developers' Responsibilities**

- Researching, designing, implementing, and managing software programs.
- Testing and evaluating the program(s).
- Identifying areas for modification in existing programs and subsequently developing these modifications.
- Writing and implementing efficient code.
- Determining operational practicality.
- Developing quality assurance procedures.
- Deploying software tools, processes, and metrics.
- Maintaining and upgrading existing systems.
- Training users.
- Working closely with other developers, UX designers, business, and systems analysts.

SYSTEM DESIGN

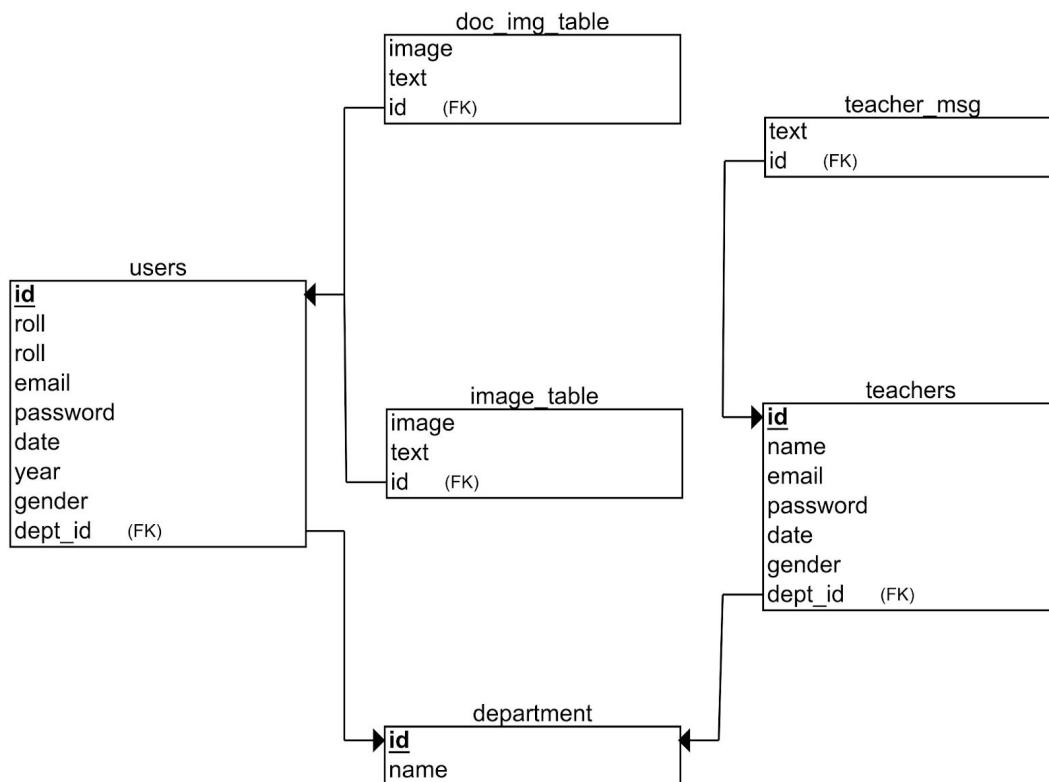
2.1 ER Diagram



2.2 Schema Description

1. users(id,name,roll,email,password,date,year,gender,dept_id).
2. teachers(id,name,email,password,date,gender).
3. department(id,name).
4. teachers_messages(id,text).
5. image_table(id,image).
6. documents_image_table(id,image,text).

2.3 Table Description



SYSTEM IMPLEMENTATION

➤ Hardware and Software Platform Description

- **Hardware Platform Description**

 - Core i5 processor

 - 1 GB RAM

 - 3 GB HDD

- **Software Platform Description**

 - VS Code IDE

 - XAMPP

 - PHPMyAdmin

➤ Tools Used

- **Front End**

 - HTML5, CSS3, Javascript, Bootstrap

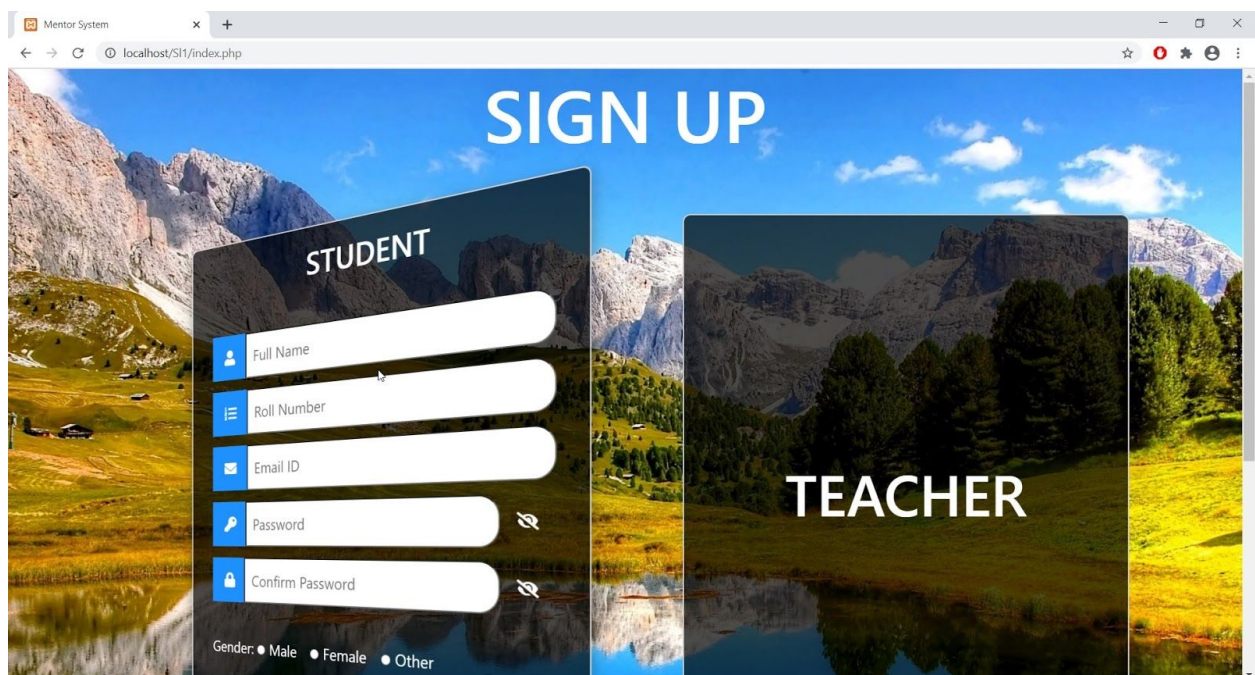
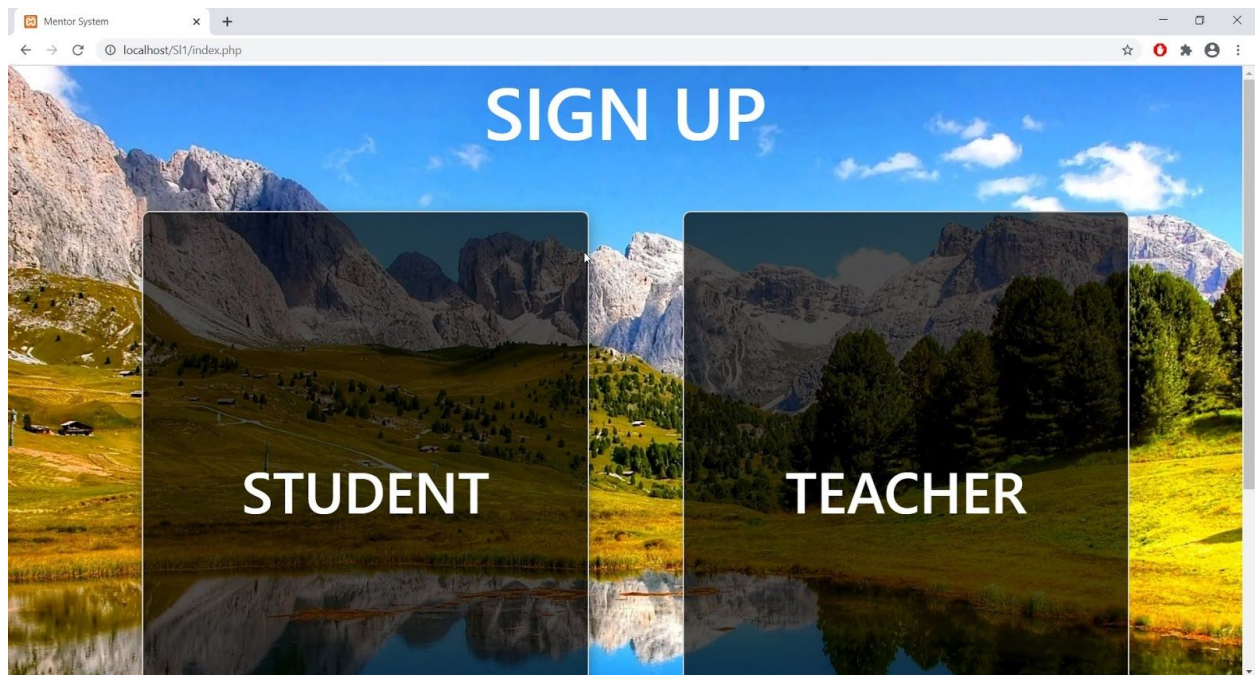
- **Back End**

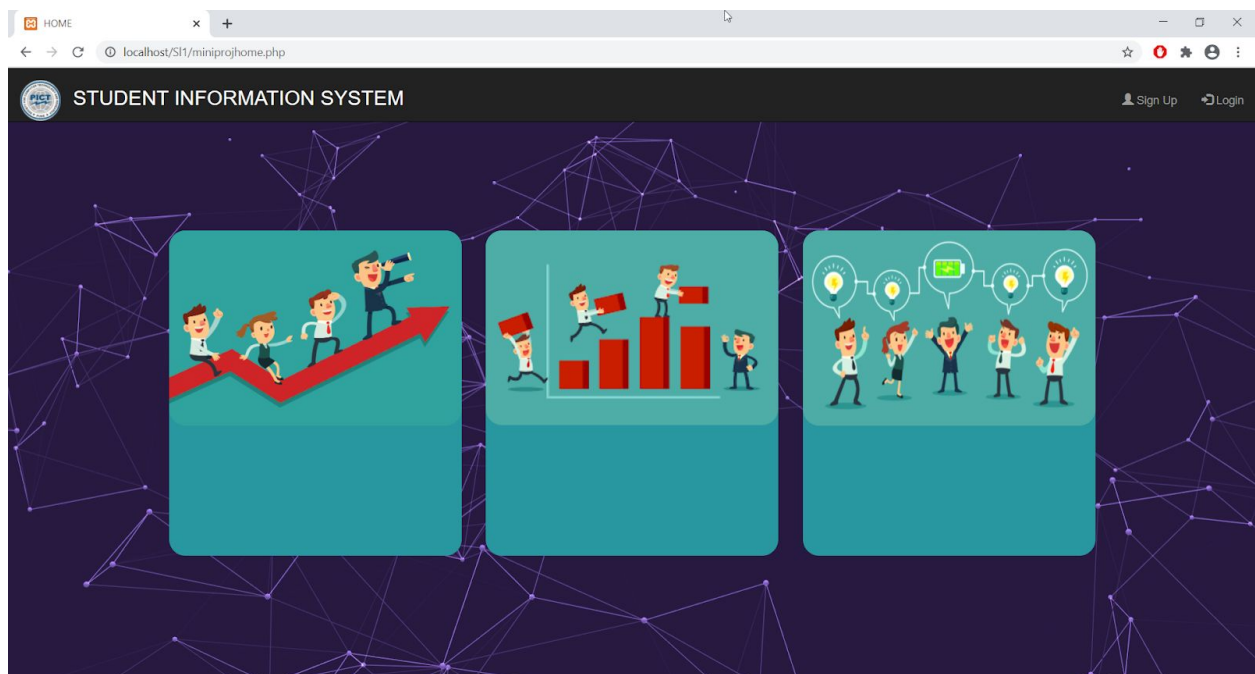
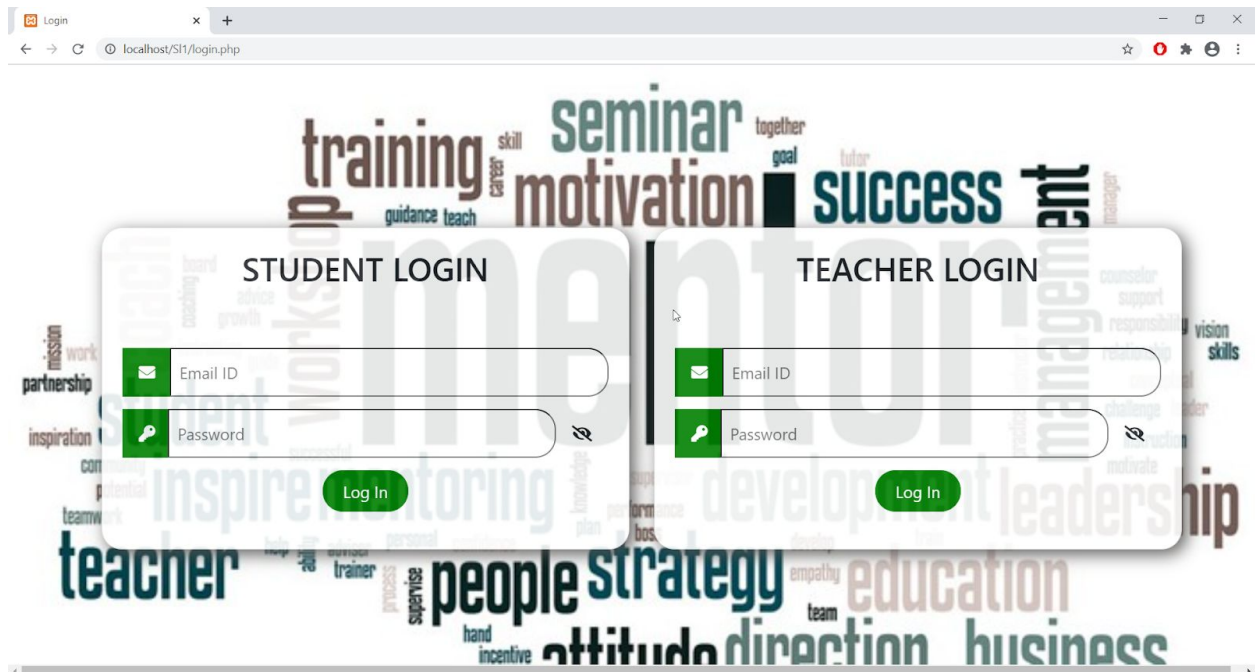
 - PHP

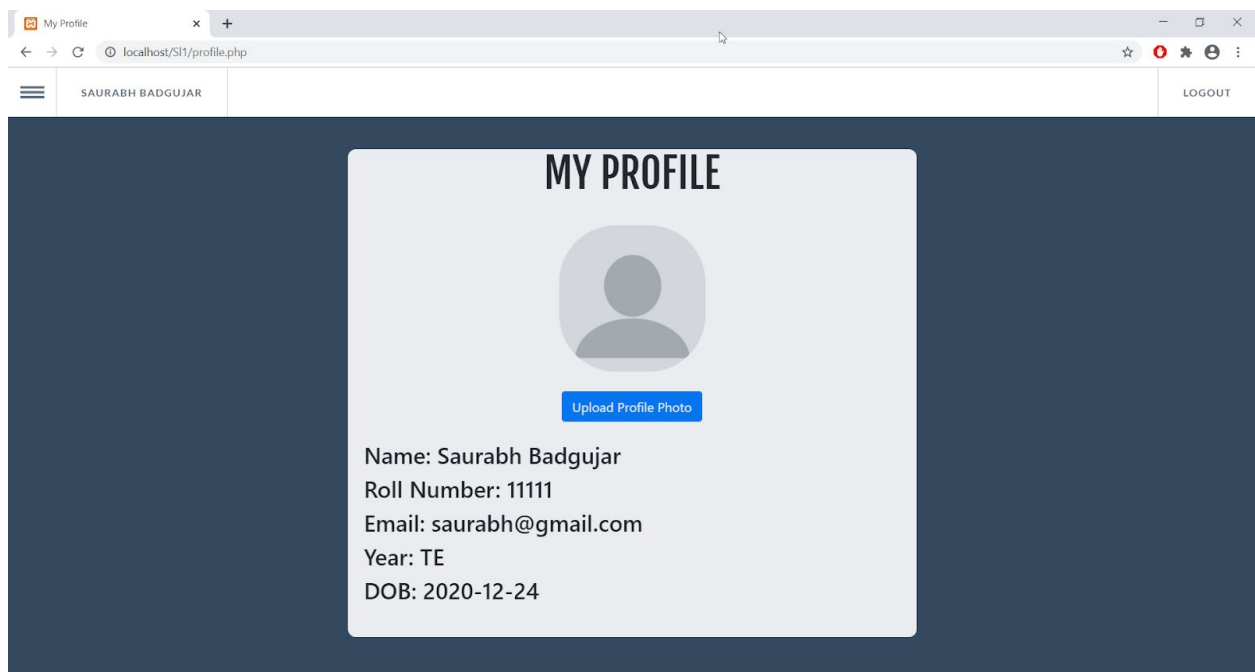
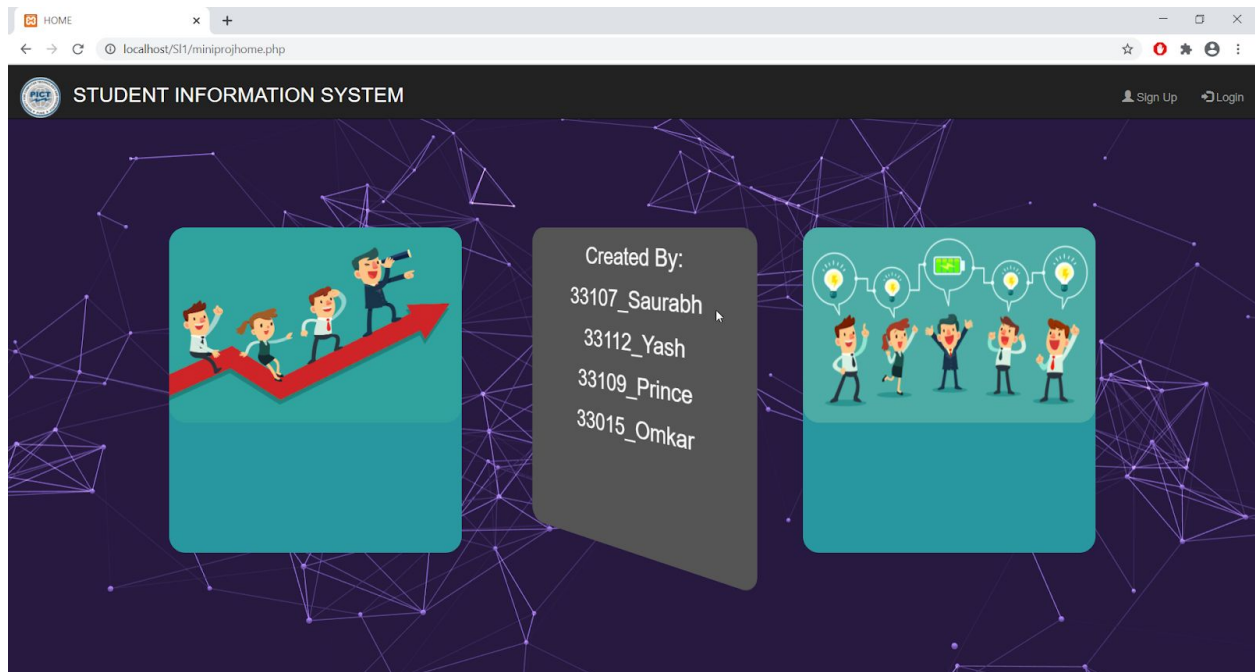
- **Database**

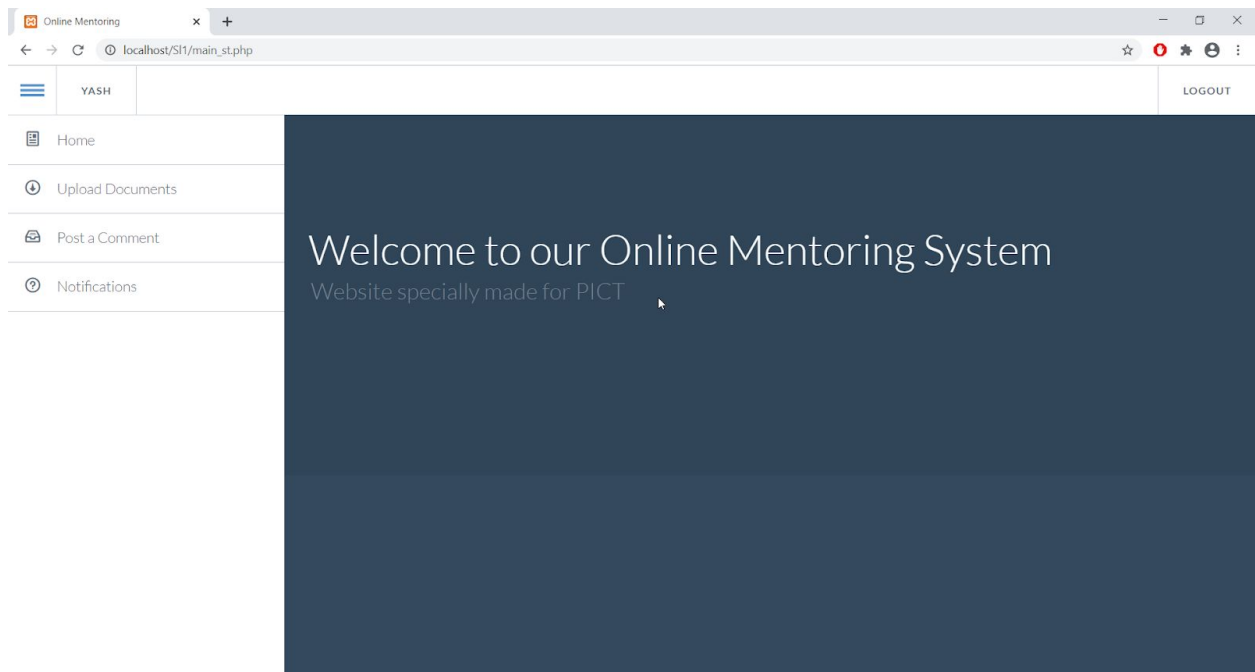
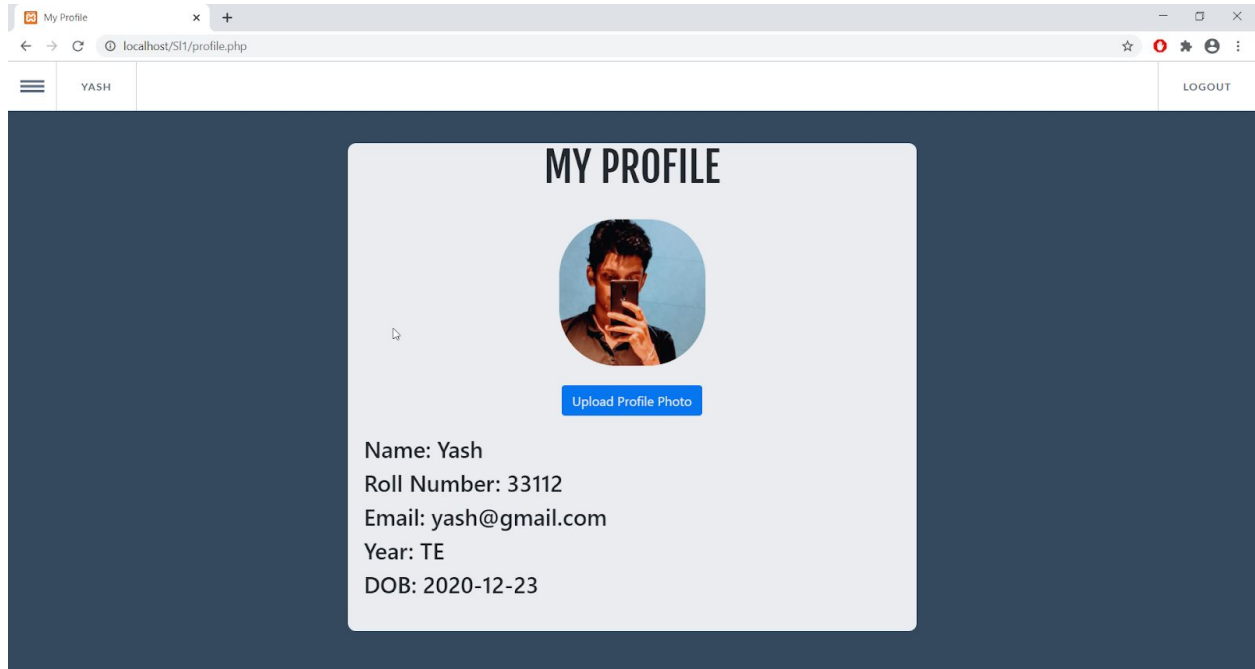
 - MySQL on XAMPP

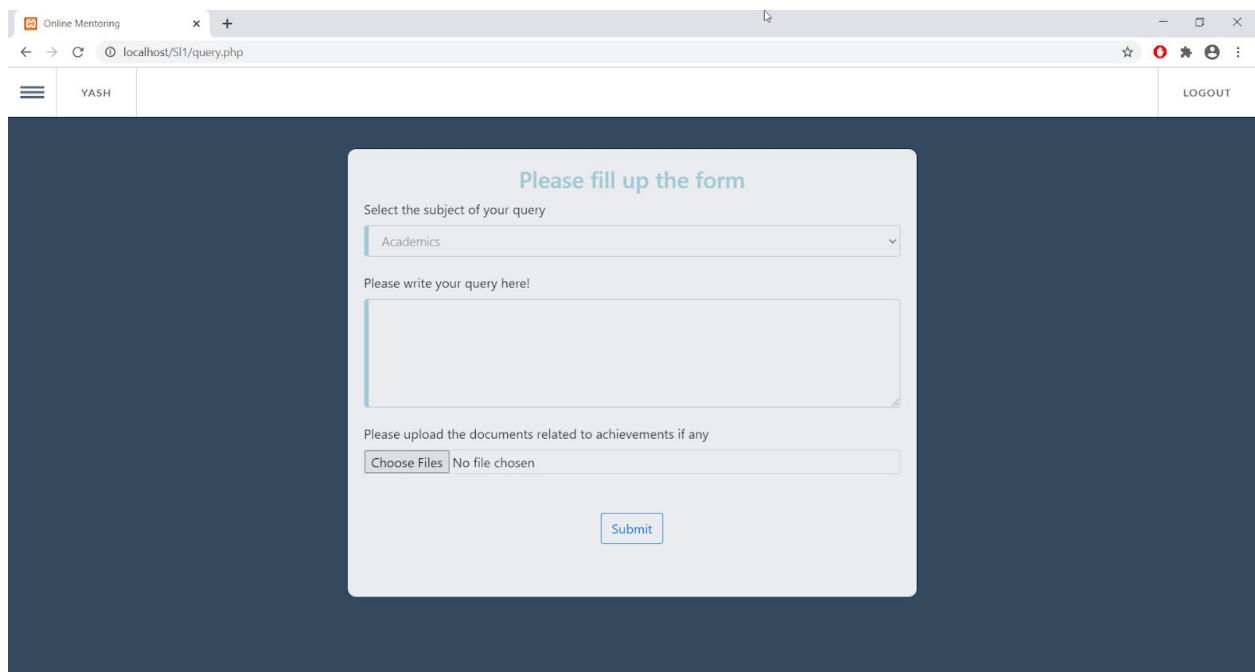
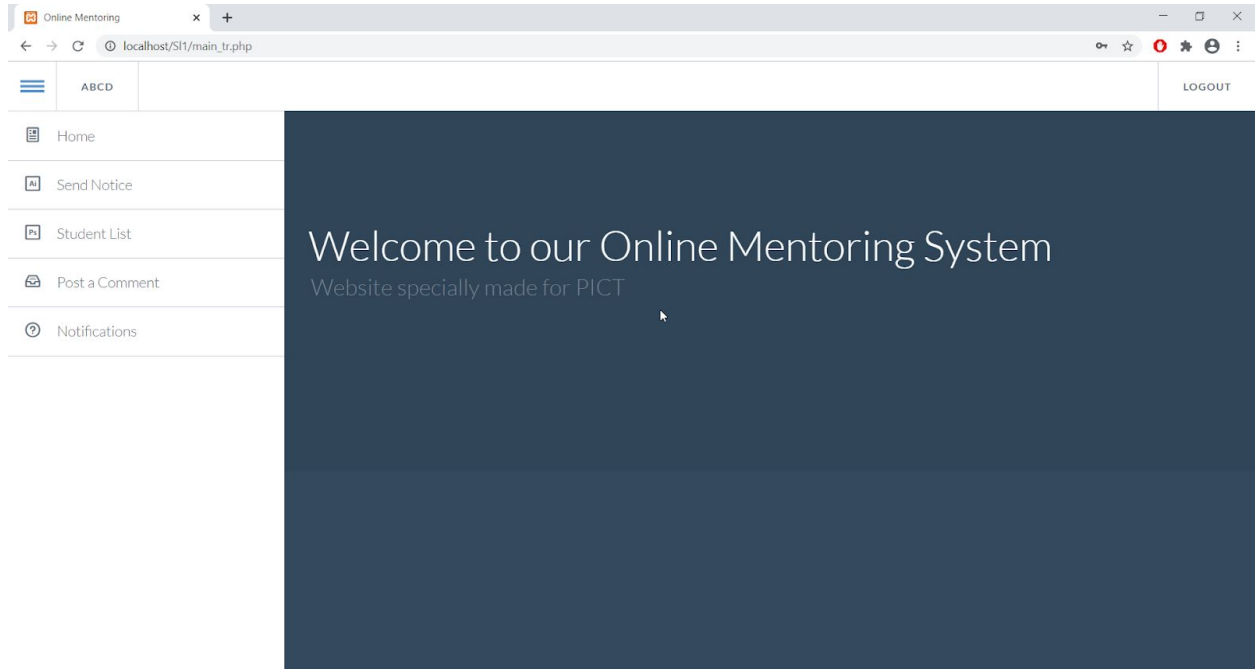
PROJECT DEMONSTRATION

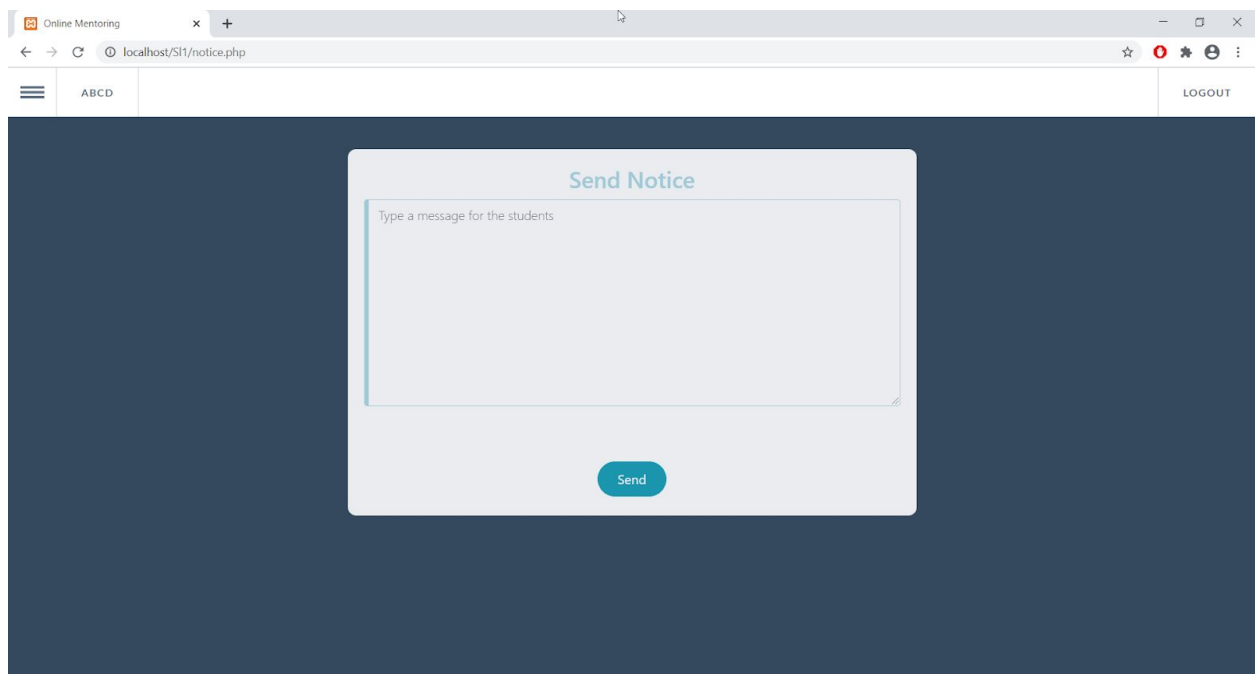
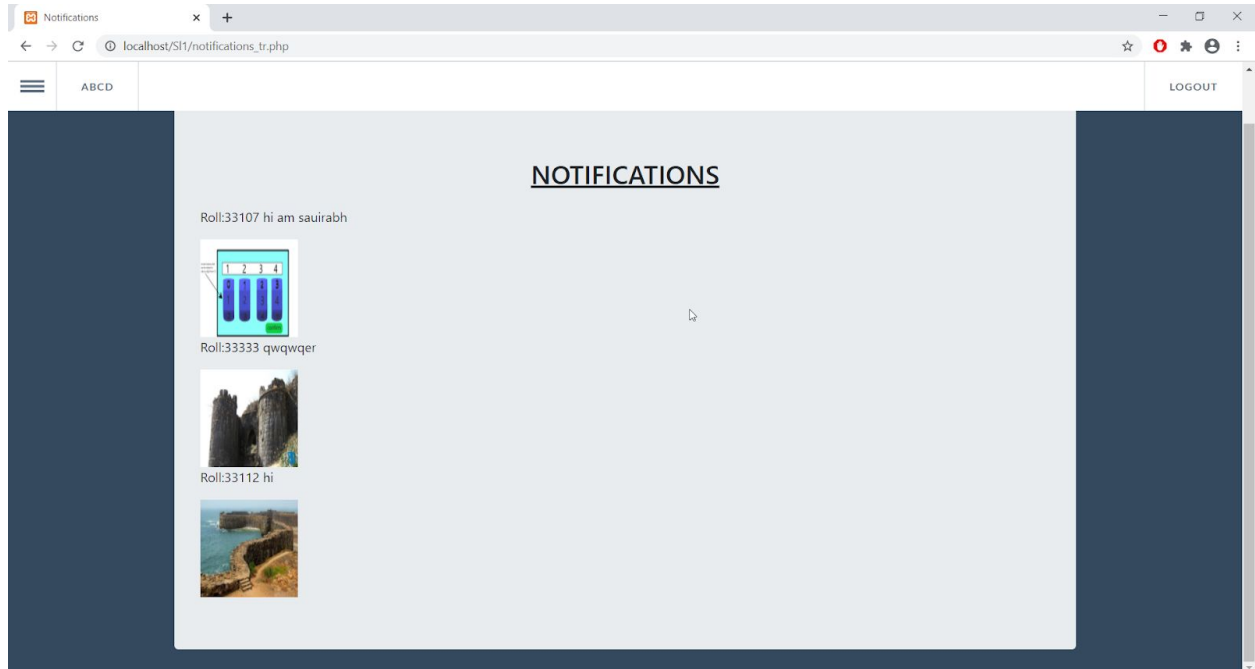


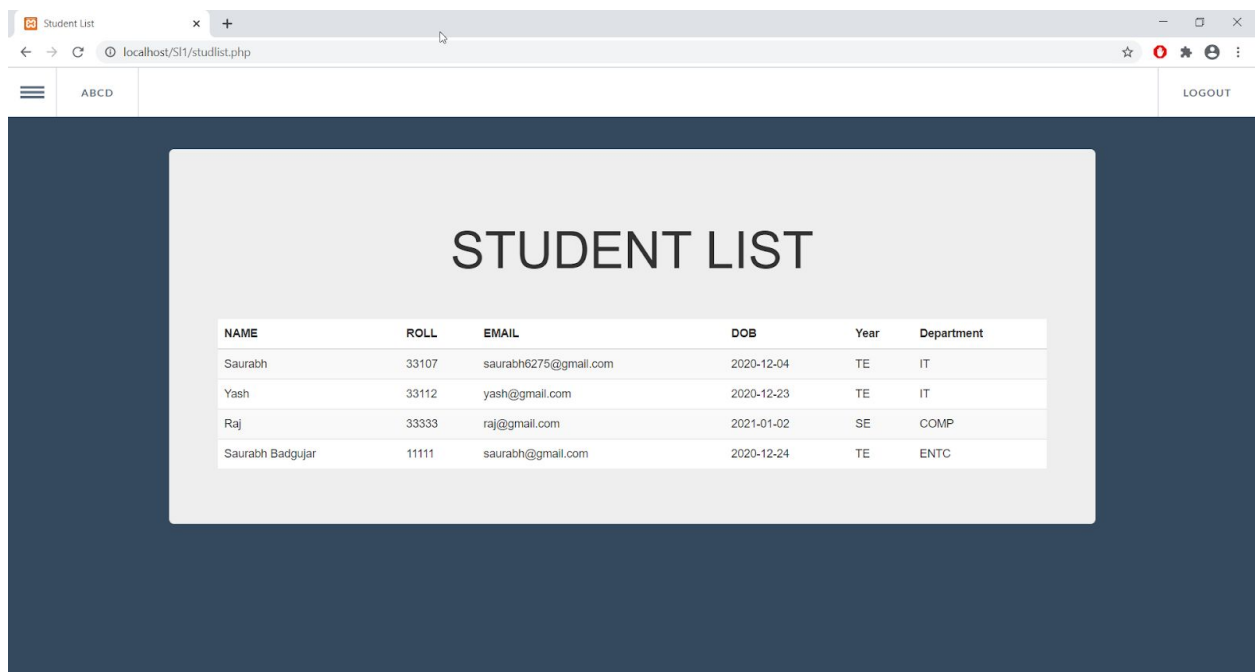
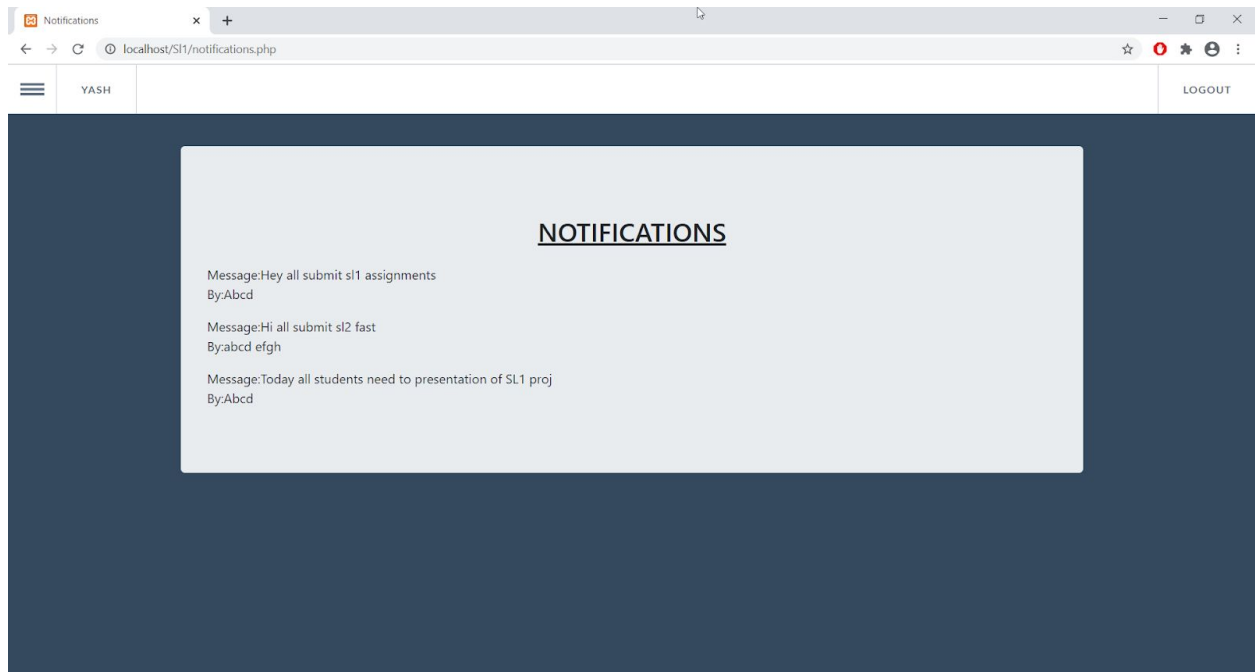












HOME localhost / 127.0.0.1 / student_info

localhost/phpmyadmin/db_structure.php?db=student_information_system

Server: 127.0.0.1 » Database: student_information_system

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Tracking More

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
department	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 K1B	-
documents_image_table	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	32.0 K1B	-
image_table	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	92.0 K1B	-
teachers	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	16.0 K1B	-
teachers_messages	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	32.0 K1B	-
users	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	32.0 K1B	-
6 tables	Sum	17	InnoDB	utf8mb4_general_ci	160.0 K1B	0 B

☐ Check all With selected:

Print Data dictionary

Create table

Name: Number of columns: 4

Go

Console

Press Ctrl+Enter to execute query

HOME localhost / 127.0.0.1 / student_info

localhost/phpmyadmin/sql.php?server=1&db=student_information_system&table=image_table&pos=0

Server: 127.0.0.1 » Database: student_information_system » Table: image_table

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 1 (2 total, Query took 0.0006 seconds)

SELECT * FROM `image_table`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

id	image	text
7	saurabh_pic.jpg	NULL
10	yash_pic.jpg	NULL

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Console

Press Ctrl+Enter to execute query

> SELECT * FROM `users`

HOME localhost / 127.0.0.1 / student_in

localhost/phpmyadmin/sql.php?server=1&db=student_information_system&table=teachers_messages&pos=0

phpMyAdmin

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- phpmyadmin
- student_information_system
 - New
 - department
 - documents_image_table
 - image_table
 - teachers
 - teachers_messages
 - users
 - teacher
 - xyz

Server: 127.0.0.1 » Database: student_information_system » Table: teachers_messages

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 2 (3 total, Query took 0.0006 seconds)

```
SELECT * FROM `teachers_messages`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options

id	text
3	Hey all submit sl1 assignments
4	Hi all submit sl2 fast
3	Today all students need to presentation of SL1 pro...

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Console

Press Ctrl+Enter to execute query

```
>SELECT * FROM `users`
```

HOME localhost / 127.0.0.1 / student_in

localhost/phpmyadmin/sql.php?server=1&db=student_information_system&table=department&pos=0

phpMyAdmin

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 - New
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 - image_table
 - teachers
 - teachers_messages
 - users
 - teacher
 - xyz

Server: 127.0.0.1 » Database: student_information_system » Table: department

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 2 (3 total, Query took 0.0007 seconds)

```
SELECT * FROM `department`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options

id	name
1	IT
2	COMP
3	ENTC

Check all With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Console

Press Ctrl+Enter to execute query

```
>SELECT * FROM `users`
```

HOME localhost / 127.0.0.1 / student_in

localhost/phpmyadmin/sql.php?server=1&db=student_information_system&table=documents_image_table&pos=0

phpMyAdmin

Recent Favorites

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- mysql
- performance_schema
- phpmyadmin
- student_information_system
 - New
 - department
 - documents_image_table
 - image_table
 - teachers
 - teachers_messages
 - users
 - teacher
 - xyz

Server: 127.0.0.1 » Database: student_information_system » Table: documents_image_table

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 2 (3 total, Query took 0.0005 seconds)

SELECT * FROM `documents_image_table`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options

id	image	text
7	3-d_design.png	hi am saurabh
8	sinhagad-fort-2019.jpg	qwqwqer
10	attr_1147_20200123163438.jpg	hi

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Console

Press Ctrl+Enter to execute query

> SELECT * FROM `users`

HOME localhost / 127.0.0.1 / student_info

localhost/phpmyadmin/sql.php?server=1&db=student_information_system&table=teachers&pos=0

phpMyAdmin

Recent Favorites

- New
- images
- information_schema
- mysql
- performance_schema
- phpmyadmin
- student_information_system
 - New
 - department
 - documents_image_table
 - image_table
 - teachers
 - teachers_messages
 - users
 - teacher
 - xyz

Server: 127.0.0.1 » Database: student_information_system » Table: teachers

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 1 (2 total, Query took 0.0005 seconds)

SELECT * FROM "teachers"

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options

	id	name	email	password	date	gender
<input type="checkbox"/>	3	Abcd	abcd@gmail.com	12345	2020-12-15	Male
<input type="checkbox"/>	4	abcd efgh	efgh@gmail.com	12345	2020-12-12	Male

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Console

Press Ctrl+Enter to execute query

>SELECT * FROM "users"

HOME localhost / 127.0.0.1 / student_info

localhost/phpmyadmin/sql.php?db=student_information_system&table=users&pos=0

phpMyAdmin

Recent Favorites

- New
- images
- information_schema
- mysql
- performance_schema
- phpmyadmin
- student_information_system
 - New
 - department
 - documents_image_table
 - image_table
 - teachers
 - teachers_messages
 - users
 - teacher
 - xyz

Server: 127.0.0.1 » Database: student_information_system » Table: users

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 3 (4 total, Query took 0.0005 seconds)

SELECT * FROM "users"

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options

	id	name	roll	email	password	date	year	gender	dept_id
<input type="checkbox"/>	7	Saurabh	33107	saurabh6275@gmail.com	12345	2020-12-04	TE	Male	1
<input type="checkbox"/>	8	Raj	33333	raj@gmail.com	12345	2021-01-02	SE	Male	2
<input type="checkbox"/>	9	Saurabh Badgujar	11111	saurabh@gmail.com	12345	2020-12-24	TE	Male	3
<input type="checkbox"/>	10	Yash	33112	yash@gmail.com	12345	2020-12-23	TE	Male	1

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Console

Press Ctrl+Enter to execute query

>SELECT * FROM "users"

FUTURE SCOPE

- In future, we can add new features of individual chatting between teaching staff and students for improvement of student-teacher interaction.
- We can also add a feature online MCQ test for tracking students performance in individual subjects or for particular chapters.

REFERENCES

- <https://www.w3schools.com/>
- <https://dev.mysql.com/>
- <https://developer.mozilla.org/en-US/docs/Web/javascript>
- <https://www.php.net/docs.php>

Conclusion

We have implemented a Student Management system. It mainly helps Staff to keep a record of all the student's performance. Using PHP as Backend Language and MySql as Database Storage we performed basic to advance database operations required. With some new concepts like normalization, triggers, views we successfully executed a PHP based project.