

PROJECT: ATTENDANCE MANAGEMENT SYSTEM

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Mba Tech CE

Readme File –

Project Description -

Project is build using Flask , python framework and SQLITE as the database .

The System allow professor to mark attendance of the student for different classes, divisions.

Technology Used -

- HTML , CSS and Boothstrap for Frontend
- Python , Flask and SQLite for Backend

Features -

- Login - Only Professor can log in to system for marking attendance
- Attendance Marking - Professors can marks attendance for student for specific date, course and divison also professor can add and remove student .
- Report - professor can view monthly attendance report of every student.
- Design - Design is made speficaly where it looks good on all the screen sizes.

Steps to Run the Project –

1. Clone the Repository

First, clone the repository to your local machine:

bash

git clone <https://github.com/your-username/attendance-system.git>

cd attendance-system

2. Set Up the Virtual Environment

It's recommended to use a virtual environment to manage dependencies. If you don't have virtualenv installed, you can install it using pip:

```
```bash
pip install virtualenv
```

Create a virtual environment:

```
```bash
virtualenv venv
```

Activate the virtual environment:

- On Windows:

```
```bash
venv\Scripts\activate
```

## 3. Install Dependencies

Install the required Python libraries:

```
```bash
pip install -r requirements.txt
```

4. Set Up the Database

The project uses SQLite, and the database will be automatically created when you run the app. However, you can manually create the database tables by running the following command:

```
```bash
python
>>> from app import db
>>> db.create_all()
```

This will create the necessary tables in the SQLite database (attendance.db).

## 5. Run the Application

To start the Flask development server, run the following command:

```
``bash
```

```
python app.py
```

The application will be available at <http://127.0.0.1:5000/> in your browser.

## 6. Access the Application

- **\*Login\***: Use the default professor credentials to log in:
  - Username: root
  - Password: root
- **\*Dashboard\***: After logging in, you will be redirected to the dashboard where you can manage attendance.

## 7. Testing the Application

Once the application is running, you can:

- Add students to the system.
- Mark attendance for students in a specific division.
- View monthly attendance reports for each student.

## 8. Stop the Application

To stop the application, press Ctrl+C in the terminal where the server is running.

## Folder Structure –

attendance-system/

```
|
|
|— app.py # Main application file
|— requirements.txt # List of Python dependencies
|— templates/ # HTML templates for rendering pages
| |— add_student.html # page to add students in the database
| |— dashboard.html # Dashboard page
| |— login.html # Login page
| |— students.html # Page to view students
| |— attendance.html # Page to mark attendance
| |— base.html # Base template for common layout
| └— report.html # Page to view attendance reports
|— static/ # Static files (CSS, JS, images)
|— attendance.db # SQLite database file (auto-generated)
└— README.md # Project documentation
```

You are invited to fork this repository, make enhancements, and submit pull requests. Your contributions are appreciated!

## ❖ Login Page

The screenshot shows the 'Attendance System' login page. At the top, there is a navigation bar with links for 'Dashboard', 'Students', 'Reports', and a 'Logout' button. A message box at the top center states 'Logged out successfully!'. The main content area features a 'LOGIN' form with fields for 'Username' (labeled 'Email or Phone') and 'Password'. Below these fields is a 'Log In' button and two social login options: 'Google' and 'Facebook'. The background is a dark blue gradient with a subtle light effect.

Attendance System

Dashboard Students Reports Logout

Logged out successfully!

**LOGIN**

Username

Email or Phone

Password

Log In

Google Facebook

## ❖ Class Dashboard

The screenshot shows the 'Attendance System' class dashboard. The navigation bar at the top includes 'Dashboard', 'Students', 'Reports', and a 'Logout' button. The main content area displays 'CLASS DASHBOARD' with a 'Select Division:' label and a dropdown menu showing 'Division A' and 'Division B'. At the bottom, there is a copyright notice: '© 2025 Attendance System All rights reserved.'.

Attendance System

Dashboard Students Reports Logout

**CLASS DASHBOARD**

Select Division:

Division A

Division B

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## ❖ Student Information

Attendance System

Dashboard

Students

Reports

Logout

Student added successfully!

STUDENTS

| Name           | Division | Actions           |
|----------------|----------|-------------------|
| Paridhi Somani | B        | <div>Remove</div> |
| Avni Somani    | A        | <div>Remove</div> |

Add a New Student

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Attendance System

Dashboard

Students

Reports

Logout

MARK ATTENDANCE FOR DIVISION B

Select Date

dd-mm-yyyy

Paridhi Somani

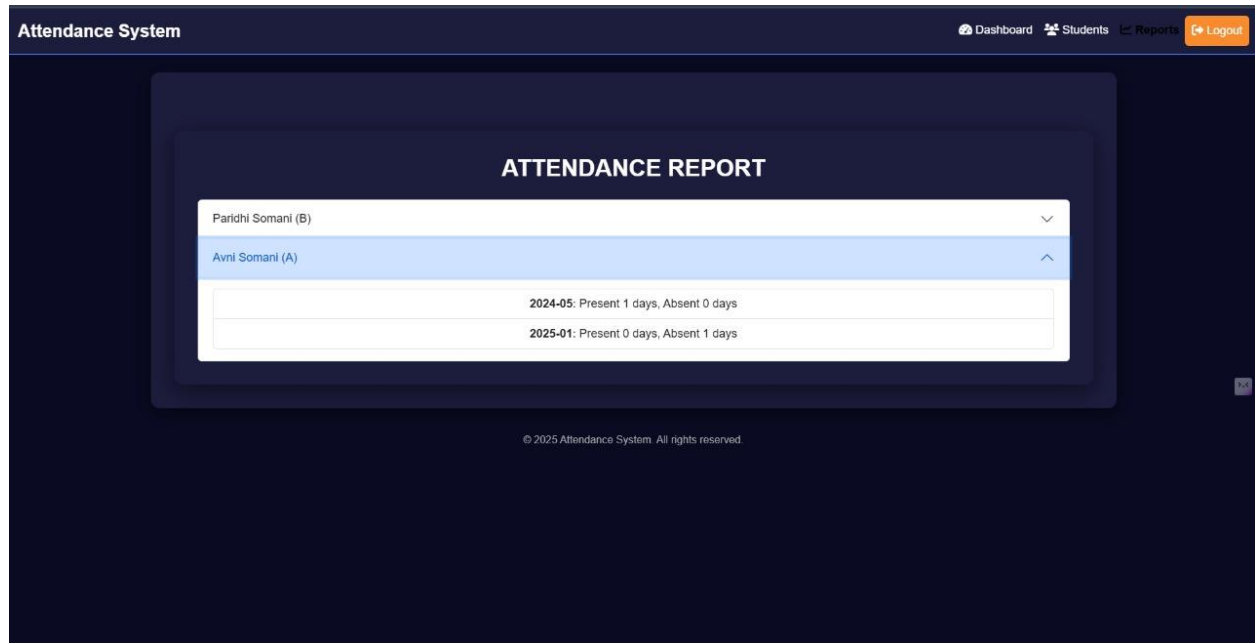
Present

Absent

Submit Attendance

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## ❖ Attendance Report



**GITHUB LINK -** <https://github.com/pariiiiiiiiiii/Attendance-Management-System.git>