

# Attendance Tracker System

This project is a web-based **Attendance Tracker System** designed for professors to manage student attendance, view detailed reports, and perform administrative tasks like adding/removing students. The system ensures a streamlined user experience with easy navigation and dynamic interaction.

## Technologies Used

- **HTML**: For structuring the web pages.
  - **CSS**: For styling the web pages and making them responsive.
  - **Bootstrap**: For designing a clean and modern layout with mobile responsiveness.
  - **PHP**: For server-side scripting, including user authentication, database interaction, and form submissions.
  - **SQLite3**: For storing and managing data related to students and attendance records.
  - **XAMPP**: For running the local development environment.
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## Key Features

### 1. User Authentication

- **Login Page**: Professors can enter their credentials (username and password) to access the system.
- **Forgot Password**: Professors can reset their password via email if they forget it.

### 2. Navigation Bar

- **Personalized Welcome**: Shows the professor's profile picture and name after login.
- **Navigation Links**:
  - Manage Students
  - Mark Attendance
  - View Reports
  - Raise Queries
  - Logout

### 3. Dashboard Cards

- **Manage Students**: Allows professors to manage student details.
- **Mark Attendance**: Lets professors mark attendance for each student.
- **View Reports**: Displays detailed attendance reports.
- **Raise Query**: Professors can submit queries or concerns related to students or classes.

## 4. Student Management

- **Search and Filter Students:** Professors can search for students by name or ID and filter by division (e.g., Div A, Div B).
- **Add/Edit Students:** Professors can add new students or edit existing student information.
- **Remove Students:** Professors can remove students from the system when needed.
- **Pagination:** Ensures smooth navigation for large databases.

## 5. Attendance Management

- **Mark Attendance:** Professors can mark students as "Present" or "Absent."
- **Dynamic Student List:** Displays students' details in a table for easy attendance marking.
- **Attendance Summary:** Shows a summary of present, absent, and total students.
- **Success Message:** After submitting attendance, a confirmation message is shown.

## 6. Attendance Reports

- **Overall Attendance:** Displays each student's total attendance, including present and absent days.
- **Monthly Attendance Data:** Tracks attendance on a monthly basis.
- **Defaulter Detection:** Marks students with more than 2 absences as defaulters.
- **Raise Red Flag:** Professors can flag students for attendance issues.
- **Dynamic Table:** Attendance data is dynamically populated in the table from the database.
- **Chart Visualization:** A bar chart visualizes attendance trends over multiple months.

## 7. Responsive Design

- The layout adapts to different screen sizes using Bootstrap, ensuring a good user experience on both desktop and mobile devices.

## 8. Interactive Modal

- **Raise Red Flag Modal:** Professors can raise a red flag for students via a modal popup by entering their name and ID.

## 9. Footer

- The footer contains copyright information and contact details for support.

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# Installation Instructions

## 1. Clone the Repository

```
bash
CopyEdit
git clone <repository_url>
```

## 2. Set Up XAMPP (or Local Server)

- Download and install **XAMPP** (or your preferred server solution).
- Start Apache and MySQL from the XAMPP control panel.

## 3. Create Database

- Open **phpMyAdmin** (usually accessible at <http://localhost/phpmyadmin/>).
- Create a new database named **attendance\_tracker**.
- Use the following SQL queries to create tables:

```
sql
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CREATE TABLE students (
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    name TEXT NOT NULL,
    division TEXT NOT NULL
);

CREATE TABLE attendance (
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    student_id INTEGER NOT NULL,
    date TEXT NOT NULL,
    status TEXT NOT NULL,
    FOREIGN KEY (student_id) REFERENCES students(id)
);
```

## 4. Update Database Configuration

- Open the `config.php` file and configure the database connection:

```
php
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define('DB_PATH', 'sqlite:attendance_tracker.db'); // Path to your
SQLite database
```

## 5. Run the Project

- Place the project files in the `htdocs` folder (for XAMPP) or the equivalent directory for your local server.
  - Access the project through your browser by visiting `http://localhost/your_project_folder`.
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## Usage

### 1. Login

- Professors should enter their credentials (username and password) to access the system.

### 2. Dashboard

- Once logged in, professors can use the dashboard to manage students, mark attendance, view reports, and raise queries.

### 3. Attendance Marking

- Navigate to the "Mark Attendance" section, select the students, and mark them as "Present" or "Absent."

### 4. Reports

- Professors can view attendance reports, track monthly attendance, and check for defaulters.

### 5. Raise Query

- Use the "Raise a Query" button to submit any concerns or questions regarding students or attendance.
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## Project Structure

arduino

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`/Attendance-Tracker`

`/css`

`styles.css           // Custom styles`

`/js`

`scripts.js          // Custom JavaScript functions`

`/uploads`

(student profile images if applicable)

config.php	// Database connection configuration
dashboard.php	// Dashboard page
index.php	// Login page
attendance.php	// Attendance marking page
report.php	// Attendance report page
students.php	// Manage students page
raise_query.php	// Query submission page
logout.php	// Log out functionality
verify_student.php	// Backend for red flag authentication

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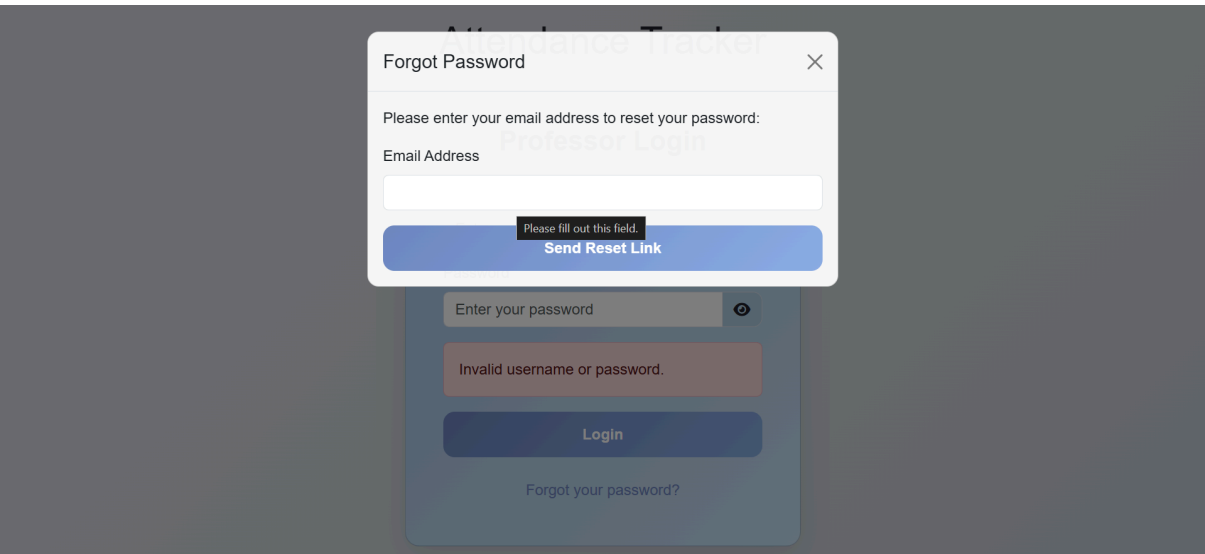
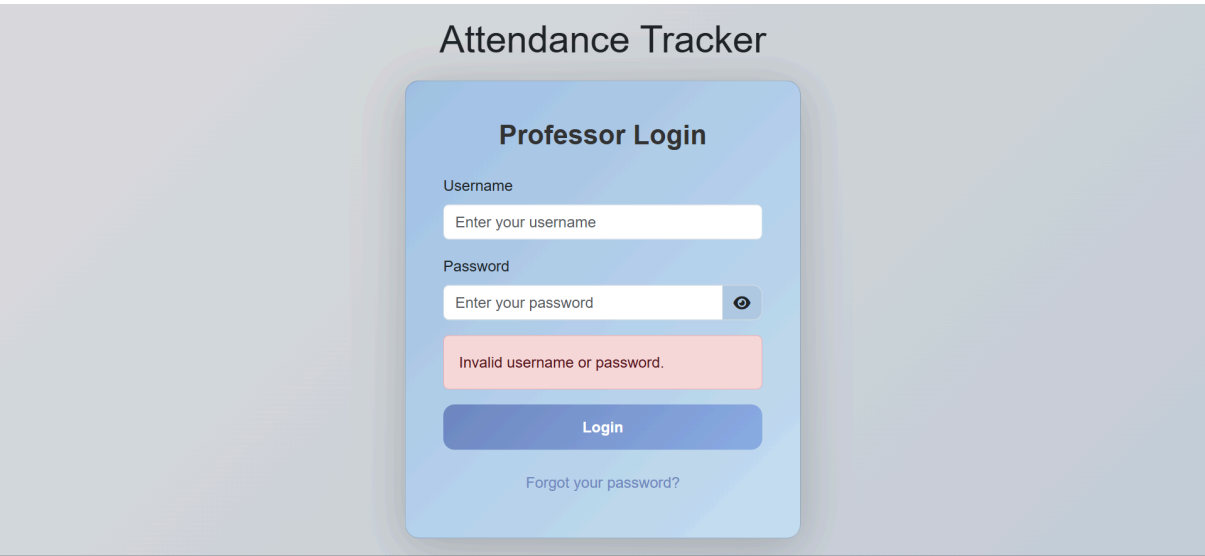
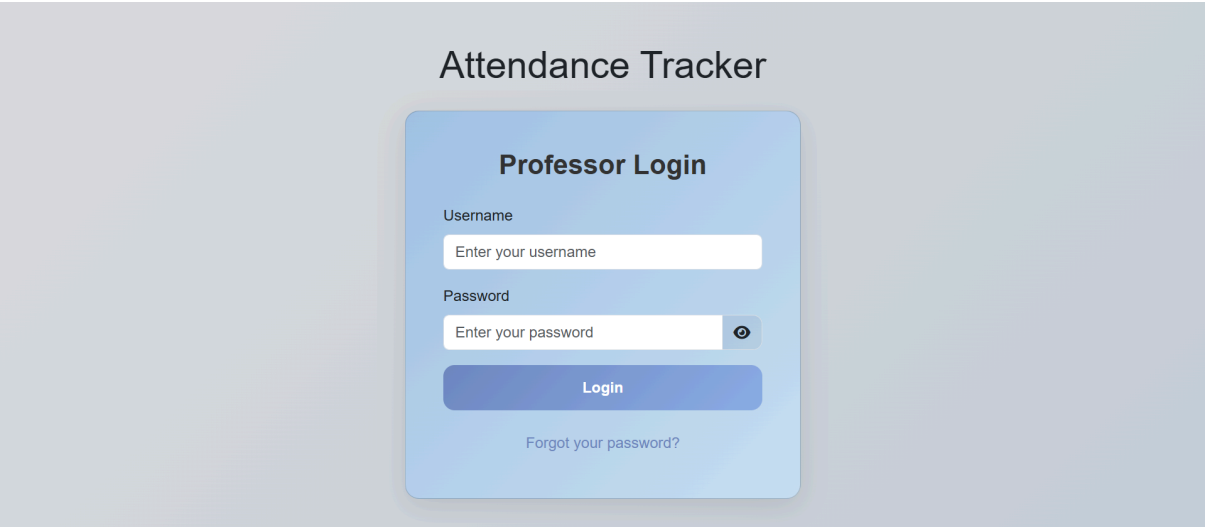
## Contact

For any inquiries or issues, please contact:

Email: [bhumikamittal0306@gmail.com](mailto:bhumikamittal0306@gmail.com)

## Screenshot

***Login page:***

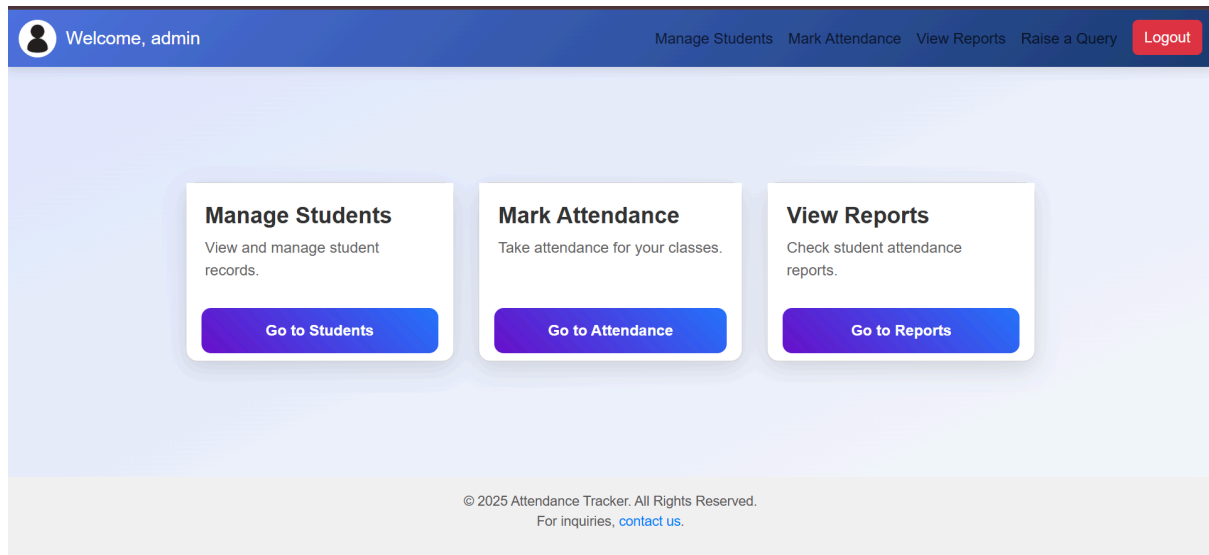


**Key Features:**

- **Username & Password Authentication:** Professors can enter their credentials to access the system.

- **Forgot Password Option:** If a professor forgets their password, they can request a reset link via email.
- **User-Friendly Design:** The interface features a clean, professional, and modern aesthetic with a soft gradient background and an easy-to-use login card.

### Dashboard:



### Key Features:

1. **Navigation Bar:**
  - The top navigation bar features the professor's profile picture and name, offering a personalized welcome.
  - It includes links to manage students, mark attendance, view reports, and raise queries.
  - The professor can log out at any time using the logout button.
2. **Dashboard Cards:**
  - **Manage Students:** This card leads to the section where professors can view and manage student information.
  - **Mark Attendance:** Professors can easily mark attendance for their classes through this card.
  - **View Reports:** This card grants access to detailed reports on student attendance for performance tracking.
  - Each card is equipped with a prominent button that directs professors to the respective section for seamless navigation.
3. **Raise Query Modal:**
  - The "Raise a Query" feature allows professors to submit questions or concerns, with a simple form to input the query.
4. **Footer:**
  - At the bottom, a footer with copyright details and contact information enhances professionalism and offers a way for users to reach out for support.

### Students:

Welcome, admin

DashboardManage StudentsMark AttendanceView ReportsRaise a QueryLogout

## Manage Students

All Divisions

Filter

Student Name

Division

Div A

Add Student

### Current Students

Student ID: 1

Bhumika mittal

Student ID: 3

vinayak

Student ID: 4

Saad

Manage Students

Div A

Filter

Student Name

Division

Div A

Add Student

### Current Students

Student ID: 1

Bhumika mittal

Division: Div A

Remove

Edit

Student Name

shreyaa

Division

Div A

Add Student

### Current Students

Student ID: 1

Bhumika mittal

Division: Div A

Remove

Edit

Student ID: 3

vinayak

Division: Div A

Remove

Edit

Student ID: 4

Saad

Division: Div B

Remove

Edit

Student ID: 5

Saad

Division: Div A

Remove

Edit

Student ID: 6

saad

Division: Div A

Remove

Edit

Student ID: 7

shreyaa

Division: Div A

Remove

Edit

## Key features:

**Search and Filter Students:** Professors can search for students by name or ID and filter them by division (Div A, Div B) to quickly locate specific students.



**Add New Students:** Professors can add new students by entering their name and division through a simple form.

**View and Edit Student Information:** Each student's information, including their name and division, is displayed in a clean and modern card layout. Professors can view the details and make edits, such as updating the student's name or division, directly within a modal.

**Remove Students:** If necessary, professors can remove students from the system through a simple "Remove" button.


**Pagination:** The page supports pagination to manage large student databases efficiently, allowing professors to navigate through the records in manageable chunks.

**Modern, Responsive Design:** The page is built with Bootstrap, ensuring it is fully responsive and looks good on both desktop and mobile devices. Cards are used for each student, creating a visually appealing and organized layout.

**Interactive Elements:** Hover effects on cards and modals provide a modern and interactive user experience.

**Consistent Branding:** The design incorporates modern colors and styles for buttons, headers, and cards, ensuring consistency across the application and maintaining a professional and clean look.

***Mark attendance:***

Welcome, admin

DashboardMark AttendanceView ReportsRaise a QueryLogout

## Mark Attendance

ID	Name	Division	Status
1	Bhumika mittal	Div A	<div>Present</div>
5	Saad	Div A	<div>Present</div>
6	saad	Div A	<div>Present</div>
7	shreyaa	Div A	<div>Present</div>
3	vinayak	Div A	<div>Present</div>
6	saad	Div A	<div>Present</div>
7	shreyaa	Div A	<div>Absent</div>
3	vinayak	Div A	<div>Present</div>
4	Saad	Div B	<div>Present</div>

Submit Attendance

Today's Attendance Summary

Present: 5 / 6

Absent: 1 / 6

Total Students: 6

### Key features:

**Session Management:** Ensures only logged-in professors can access the page.

**Database Integration:** Fetches student data and stores attendance records in the database.

**Attendance Marking:** Allows professors to mark each student's attendance as "Present" or "Absent."

**Dynamic Student List:** Displays students' details (ID, Name, Division) in a table for easy attendance marking.

**Success Message:** Shows a confirmation message after submitting attendance.

**Attendance Summary:** Displays a summary of the day's attendance (Present, Absent, Total students).

**Responsive Design:** UI adapts to different screen sizes, using Bootstrap for a modern look.

**Navbar Navigation:** Provides links to Dashboard, Reports, and Logout, with a profile picture.

**Form Submission:** Attendance data is submitted via POST, updating the database accordingly.

**Footer:** Contains copyright information and contact details.

**Attendance report:**

Welcome, admin

DashboardMark AttendanceAttendance ReportLogout

### Attendance Reports

Raise a Red Flag

Name	Division	Month	Days Present	Days Absent	Defaulter
Bhumika mittal	Div A	2025-01	12	14	Yes
Saad	Div A	2025-01	12	13	Yes
saad	Div A	2025-01	19	6	Yes
shreyaa	Div A	2025-01	1	0	No
vinayak	Div A	2025-01	20	5	Yes
Saad	Div B	2025-01	24	1	No

#### Attendance Overview (Bar Chart)

Month	Present	Absent
January	12	14
February	15	13
March	19	6
April	20	5
May	24	1

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**Key features:**

**User Authentication:** Professors are required to log in to access attendance reports.

**Attendance Reports:** Displays overall attendance for each student, showing present and absent days.

**Monthly Attendance Data:** Tracks student attendance month-by-month.

**Defaulter Detection:** Identifies students with more than 2 absences and marks them as defaulters.

**Raise Red Flag:** Professors can flag students for attendance issues by entering their name and ID.

**Dynamic Table:** Presents student attendance data in a table, with dynamic rows populated by database results.

**Chart Visualization:** Uses Chart.js to display a bar chart for visualizing attendance trends over multiple months.

**Responsive Design:** Adapts the UI for various screen sizes, ensuring a mobile-friendly layout.

**Interactive Modal:** Allows professors to raise a red flag for students via a modal popup.

**Footer with Contact Info:** Provides a simple footer with copyright and contact details.

*Raise a query:*

Raise a Query

Your Query

Bhumika|

Submit Query