

# Smart Attendance Management System

A web-based attendance system developed as a final year capstone project to digitize and streamline attendance tracking.

## Team Members

- **Vikas Gaikwad (Group Leader):** UI Design & Flask Integration
- **Vedant Shivade:** Frontend Development & Templates
- **Rushad Adikane:** Database & Backend Logic
- **Divesh More:** Testing & Documentation

## Guided by

- Megha Shinde (HOD)

## Subjects Involved

- Network and Info Security – Saloni Purkar
- Mobile App Dev – Jyoti Chandwade
- Class Advisor – Ashwini Patil

## Features

- Role-based access control (Admin, Teacher, Student)
- Real-time attendance tracking
- Automated reports
- Dashboard interfaces for different user roles
- Attendance status visualization
- Export reports to CSV

## Tech Stack

- Backend: Python with Flask framework
- Database: SQLite
- Frontend: HTML, CSS, JavaScript
- Styling: Bootstrap 5
- Icons: Bootstrap Icons

## Setup Instructions

### Prerequisites

- Python 3.8 or higher
- pip (Python package manager)

### Installation

1. Clone the repository:

```
git clone https://github.com/yourusername/attendance-management-system.git
cd attendance-management-system
```

2. Create and activate a virtual environment (recommended):

```
# Windows
python -m venv venv
venv\Scripts\activate

# macOS/Linux
python3 -m venv venv
source venv/bin/activate
```

3. Install dependencies:

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

4. Run the application:

```
python app.py
```

5. Access the application at: `http://localhost:5000`

## Default Login Credentials

### Admin

- Username: MeghaShinde
- Password: admin123

### Teachers

Name	Subject	Username	Password
Saloni Purkar	Network & Info Security	saloni	teach123
Ashwini Patil	Class Teacher	ashwini	teach456
Jyoti Chandwade	Mobile App Dev	jyoti	teach789

### Students

Name	Username	Password
Vikas Gaikwad	vikas	stud123
Vedant Shivade	vedant	stud456
Rushad Adikane	rushad	stud789
Divesh More	divesh	stud101

## Project Structure

```
attendance-system/
├─ app.py           # Main Flask application
├─ database.db      # SQLite database (created on first run)
├─ requirements.txt # Python dependencies
├─ schema.sql       # Database schema
├─ static/          # Static files
│   └─ css/         # CSS stylesheets
│   └─ js/          # JavaScript files
│   └─ images/       # Images and icons
└─ templates/       # HTML templates
    ├─ base.html     # Base template with common structure
    ├─ index.html    # Landing page
    ├─ login.html    # Login page
    └─ ... (other templates)
```

## License

This project is created as a capstone project for educational purposes.