## College Attendance Management System using Django in Python

This project is entitled **College Attendance Management System**. This is a web-based application developed in **Python** using **Django Framework**. The project helps certain **College School Faculties** store/record and manage their students' attendances per class. Using the application, they can easily list their class student list and record each student's attendance. Faculty can record the student as Present, Tardy, or Absent on a specific date. The application has a pleasant user interface using the **Bootstrap Framework**. It also has user-friendly features and functionalities

## **About the** College Attendance Management System

I developed this project using the following:

* **Python**
* **Django**
* **HTML**
* **CSS**
* **JavaScript**
* **jQuery**
* **Ajax**
* **Bootstrap v5**
* **Material Design Bootstrap Template**
* **Font-Awesome**

This **College Attendance Management System Project** is accessible for 2 types of user roles which are the **Administrator or the Super User** and the **Faculty User**. The Admin user has the privilege to access and manage all the features and functionalities including the **Django Admin Panel**. He/She is in charge of populating the important list of data in the system such as the **Courses**. Admin users are the only ones who can register the faculty system credentials which means the system does not support any user registration on the public side. Faculty users can only manage the data that are assigned to him or them. The faculty can only manage the attendance data, add/delete students into the class, and print the **Class Attendance Report**. Faculty can print the **Class Attendance Report** at the Class Information Page.

## **Features**

### **Admin-Side**

* **Login Page**
* **Home/Dashboard Page**
  + Displays the Summary
* **Department Management**
  + Add New Department
  + List All Department
  + Update Department Details
  + Delete Department Details
* **Course Management**
  + Add New Course
  + List All Courses
  + Update Course Details
  + Delete Course Details
* **Faculty Management**
  + Add New Faculty
  + List All Faculties
  + Update Faculty Details
  + Delete Faculty Details
* **Student Management**
  + Add New Student
  + List All Students
  + Update Student Details
  + Delete Student Details
* **Class Management**
  + Add New Class
  + List All Classes
  + Update Class Details
  + Delete Class Details
  + View Class Information
  + View Class Student List
  + Add Student to Class
  + Delete Student to Class
  + Print Report
* **Attendance Management**
  + Select Class to Manage
  + Select Attendance Record Date
  + Record the Class Attendance
* **Update Profile Details**
* **Update Profile Avatar**
* **Update Account Password**
* **Logout**

### **Faculty-Side**

* **Login Page**
* **Home/Dashboard Page**
  + Displays the Summary
* **Student Management**
  + List All Students
  + View Student Details
* **Class Management**
  + List All Classes
  + View Class Information
  + View Class Student List
  + Add Student to Class
  + Delete Student to Class
  + Print Report
* **Attendance Management**
  + Select Class to Manage
  + Select Attendance Record Date
  + Record the Class Attendance
* **Update Profile Details**
* **Update Profile Avatar**
* **Update Account Password**
* **Logout**

## **How to Run**

### **Download/Install the following**

* **Python** *(I used v3.9.1)*
* **Django** *(I used v4.0.3)*
* **PIP** *(for python modules installation)*

### **Setup/Installation**

1. **Download** and **Extract** the provided source code zip file. *(download button is located below)*
2. **Open** your **Terminal/Command Prompt** window. *(make sure to add "python" and "pip" in your environment variables)*
3. **Change** the **working directory** to the extracted source code folder. i.e. cd C:\Users\Personal-23\Desktop\django\_ams
4. **Run** the following **commands**:
   * pip install Django
   * pip install -r requirements.txt
   * python manage.py migrate
   * python manage.py runserver
5. **Open** a **web browser** and **browse** <http://localhost:8000/> or <http://127.0.0.1:8000/>

### **Access Information**

**SuperUser**  
**Username: admin**  
**Password: admin123**

**Sample faculty**  
**Username: cblake**  
**Password: claire#123**