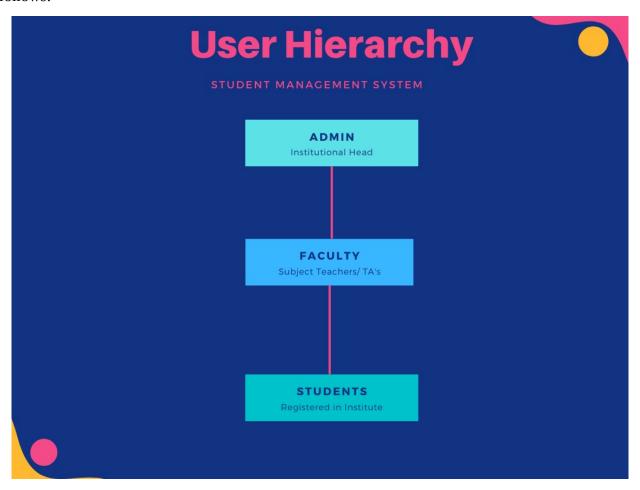
# <u>Student Management System Using Django – Brief</u>

#### **Description:**

Web application developed using Django as back-end programming language with MySQL database and bootstrap css as front-end.

This web application can be used to manage basic operations dealt commonly in any educational institution. This web-app deals with users with 3 level of permission hierarchies, visualized as follows:



"ADMIN" types users having maximum privilege, and "STUDENTS" having the minimum privilege. All the features in this project has been discussed later in this document.

The planning and design project is a joint effort of our team members.

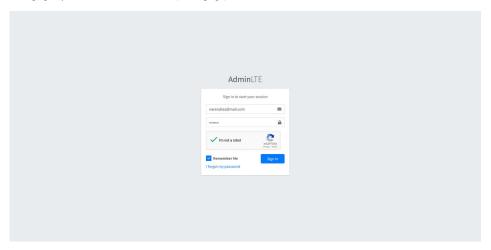
#### References:

- https://adminlte.io/
- https://www.zeolearn.com/magazine/first-steps-to-create-the-website-with-django
- https://www.tutorialspoint.com/how-to-build-your-own-website-using-django-in-python
- https://developer.mozilla.org/en-US/docs/Learn/Server-side/Django/Home\_page
- https://developer.mozilla.org/en-US/docs/Learn/Server-side/Django/skeleton\_website
- https://hostadvice.com/how-to/how-to-create-a-simple-web-app-with-django-2/
- https://github.com/vijaythapa333/django-student-management-system

# **Student Management System Using** *Django*

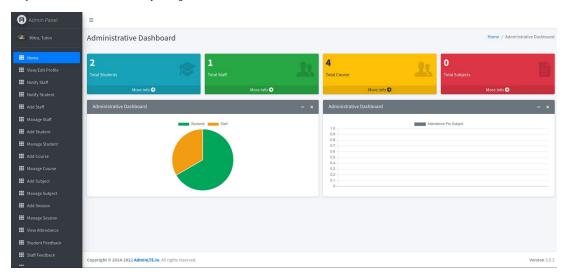
### Login Page:

First page after user visits the website,(home page)



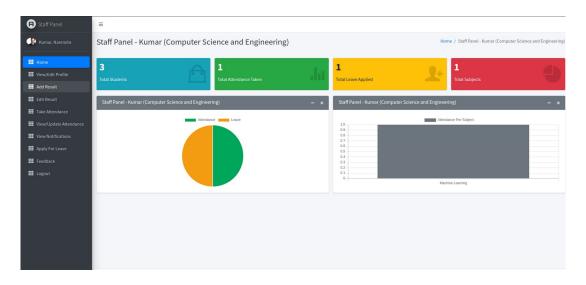
#### Admin Panel:

Only visible to users with admin privilege...



### **Staff Home Page:**

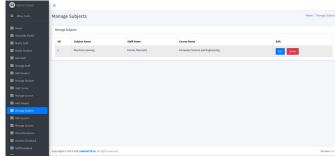
Page after Igin visible to staffs only (added by admin)



# Add/Manage Subjects Page:

Admin can add/manage subject related informations from these pages

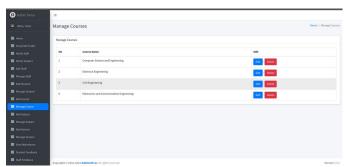




# Add/Manage Courses Page:

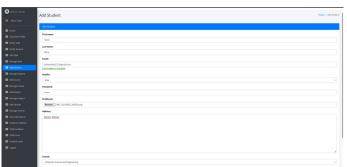
Admin can add/remove/update course informations from these pages





# Add/Manage Student Page:

Admin can add/remove/update student profile from following two pages provided student details

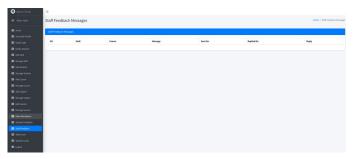




#### View Student/Staff Feedback:

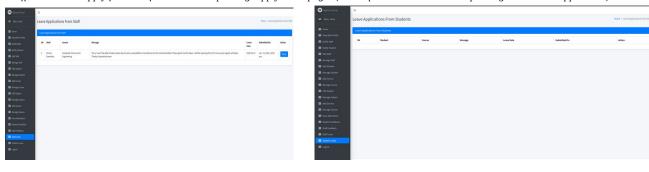
Admin can view student's or staff's feedback (if any) from the follwoing pages





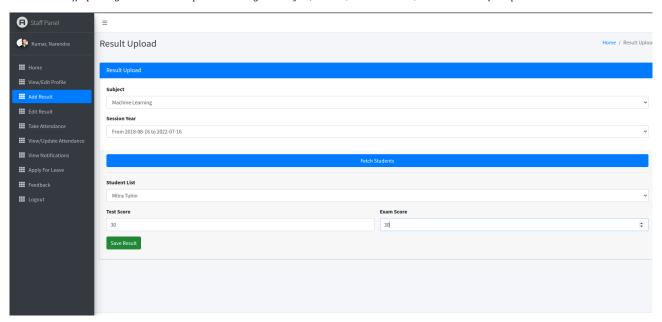
### **Staff/Student Leave:**

 $Staff/Student\ can\ apply\ for\ leave\ from\ thir\ corresponsing\ / apply/leave\ pages\ (this\ request\ will\ be\ visiable\ as\ pending\ until\ admin\ approves\ it)$ 



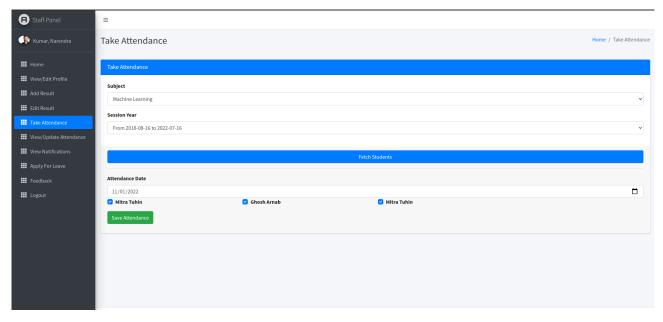
#### Add Result:

User with "staff" privilege can create and publish result given subject, session, obtained score, total score and for a particular student name



#### **Taking Attendance:**

Staff assigned to particular subject can take the attendance for that subject given the session and students who are present.



# **Student Management System Features List**

#### **Admin Features/Permissions**

1. Access Staff/Student Details 7. Remove Students account 13. Assign staff with subject

2. Add Faculty account 8. Create Session 14. Remove subjects for sessions

3. Edit Faculty profile details 9. Edit Session details 15. Create course

4. Remove Faculty account 10. Remove Sessions 16. Edit course details

5. Add Students account 11. Add session subject 17. Remove Courses

6. Edit Student profile details 12. Edit subject details 18. Send notifications to Staff and Students

#### **Staff Features/Permissions**

Access profile
Apply for leave
Add Result
Login/Logout information

4. Take attendance 7. Edit Result

2. Edit profile5. View/Update attendance8. Add Feedback

#### **Student Features/Permissions**

Access Profile 3. View attendance %
Information 5. Provide feedback and see responses notifications
View total number of

Edit Profile subjects
Apply for leave information

#### **Additional Features**

Login veritification
Responsive
Modern css and icon styling

# <u>Student Management System – Project Background</u> and Technical Details

#### Pre-requisites:

- 1. Python version >= 3.7
- 2. MySQL server installed and setup
- 3. Any modern OS compatiable to run Python and MySQL (run and tested on Windows10 and Linux)

#### **Setup and Execution:**

- 1. Empty database created inside MySQL with the name "django"
- 2. MySQL admin username and password to access permissions to modify database "django"
- 3. Install all the required modules mentioned in requirements.txt,
  - pip install -r requirements.txt
- 4. Export environment variables to connect to existing MySQL server/django and run the application server:
  - ◆ To run the application execute the following commands in order: export DB\_USER="tuhin" export DB\_PASS="Tuhin190221?" export DB\_HOST="127.0.0.1" export DB\_PORT="3306"
  - python manage.py runserver
- 5. To create a admin user execute the following command from same terminal:
  - python manage.py createsuperuser
  - ...Enter email, username, password to create a new admin user.
  - Restart the application server using the command mentioned at (4)
- 6. Visit <a href="http://127.0.0.1:8000">http://127.0.0.1:8000</a> to login the application server.