TY B.Tech

Advanced Database System Lab.

Assignment No. 4

Batch: T6

Roll No: 2019BTECS00033

Title:

Design and implement a web-enabled student MIS (Management Information System).

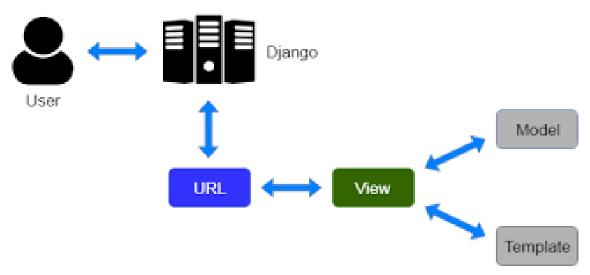
Objective: Use Django/ MySQL / Bootstrap v5.0.

Introduction:

Django:

Django is a python library which is popular for its entire development.

This is how Django MVT model works.



MySQL:

MySQL: Here Django provides inbuilt db.SQLite for its database .which has admin panel to visualize entire db in more efficient way also we have create a superuser for that .

Bootstrap v5.0:

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

Adding bootstrap to application:

```
<link rel="stylesheet" href="https://stackpath.bootstr
apcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity
="sha384-</pre>
```

MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkF0JwJ8ERd
knLPMO" crossorigin="anonymous">

Above script is added in <head> </head> of the HTML page.

Home page:

Home	Register Faculty	Register Student	Login	Admin						
Welcome to University management system										
					Systems Management					
About Us										
Here we manag	e the university netwo	rk management								

Entity Boards:

Register Faculty

Name

Enter Your Name

Username

Enter Your Username

Email

Enter Your Email

Password

Enter Your Password

Submit

Home Register Faculty

Register Student

Login

Admin

Register Student

Name

Enter Your Name

Username

Enter Your Username

Email

Enter Your Email

Password

Enter Your Password

Roll No

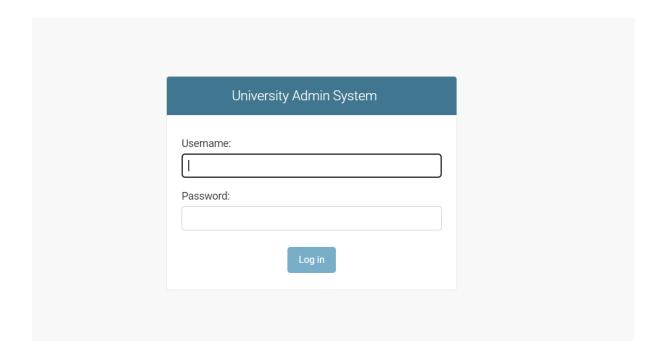
Enter Your Roll No.

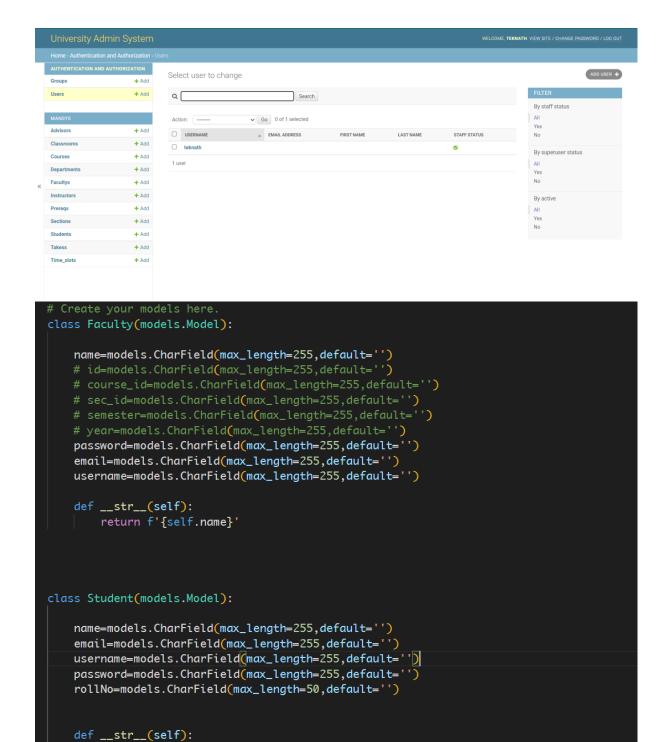
Submit

Login

Username

Osernanie			
Enter You	ur Username		
Password			
Enter You	ur Password		
□ Student □ Faculty			
Submit			





return f'{self.name} {self.rollNo}'

```
class Classroom(models.Model):
   building=models.CharField(max_length=255,default='')
   room_number=models.CharField(max_length=255,default='')
   capacity=models.IntegerField()
   def __str__(self):
       return f'{self.building} {self.room_number}'
class Department(models.Model):
   dept_name=models.CharField(max_length=255,default='')
   room_number=models.CharField(max_length=255,default='')
   capacity=models.IntegerField()
   def __str__(self):
       return f'{self.dept_name} {self.room_number}'
class Course(models.Model):
   course_id=models.CharField(max_length=255,default='')
   title=models.CharField(max_length=255,default='')
   dept_name=models.CharField(max_length=255,default='')
   credits=models.IntegerField()
```

```
class Instructor(models.Model):
    ins_id=models.CharField(max_length=255,default='')
    name=models.CharField(max_length=255,default='')
    dept_name=models.CharField(max_length=255,default='')
    salary=models.CharField(max_length=255,default='')
    def __str__(self):
       return f'{self.name} {self.rollNo}'
class Section(models.Model):
    course_id=models.CharField(max_length=255,default='')
    sec_id=models.CharField(max_length=255,default='')
    semester=models.CharField(max_length=255,default='')
   year=models.CharField(max_length=255,default='')
   building=models.CharField(max_length=255,default='')
    room_number=models.CharField(max_length=255,default='')
    time_slot_id=models.CharField(max_length=255,default='')
    def __str__(self):
        return f'{self.course_id} {self.sec_id}'
class Takes(models.Model):
    takes_id=models.CharField(max_length=255,default='')
    course_id=models.CharField(max_length=255,default='')
    sec_id=models.CharField(max_length=255,default='')
    semester=models.CharField(max_length=255,default='')
   year=models.CharField(max_length=255,default='')
    grade=models.CharField(max_length=255,default='')
```

```
class Advisor(models.Model):
    s_id=models.CharField(max_length=255,default='')
    i_id=models.CharField(max_length=255,default='')
    def __str__(self):
        return f'{self.s_id} {self.i_id}'
class Time_slot(models.Model):
    time_slot_id=models.CharField(max_length=255,default='')
    day=models.CharField(max_length=255,default='')
    start_time=models.CharField(max_length=255,default='')
   year=models.CharField(max_length=255,default='')
    grade=models.CharField(max_length=255,default='')
    def __str__(self):
       return f'{self.time_slot_id} {self.day}'
class Prereq(models.Model):
    course_id=models.CharField(max_length=255,default='')
    prereq_id=models.CharField(max_length=255,default='')
    def __str__(self):
        return f'{self.course_id} {self.prereq_id}'
```

Conclusion:

Django application was developed for the Student Information Management System with the help of Bootstrap5 as a front-end framework and SQLITE as backend database.