Django By Surendra Kumar Panda
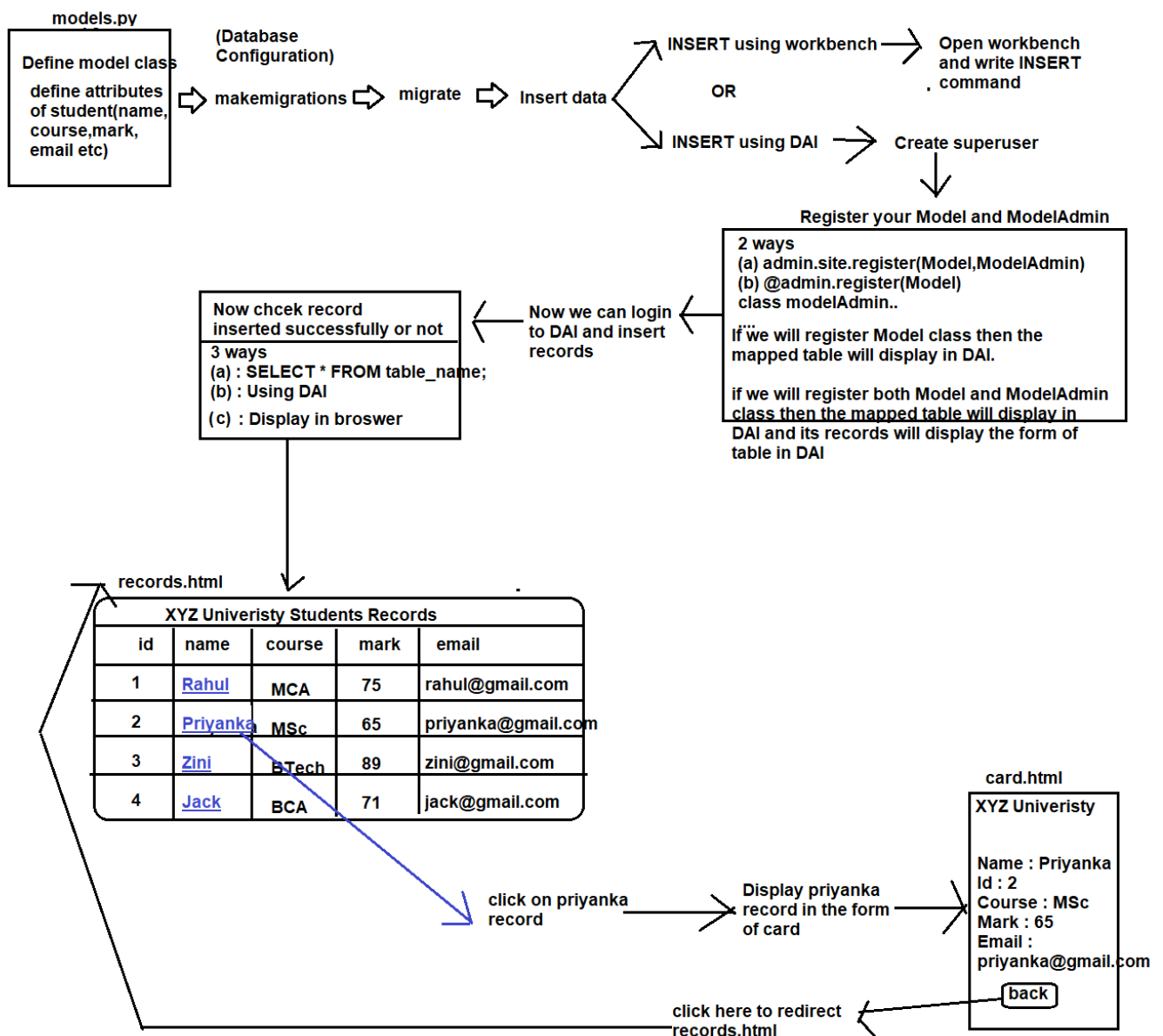
Day: 14
Date: 29/05/2024
Chapter: MODEL (continue), Topic: Display Card Project

P015: Display all the students records on the webpage in tabular form then click on student name then display that student record in the form of card.

Breakdown this project

- ❖ Display all the students records on the webpage in tabular form.
- ❖ Click on a particular student name then display that student record in the form of card.

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All Steps
Step 1: Common steps
Step 2: Database configurations
Step 3: Define model class inside models.py
Models.py

```python
from django.db import models


# Create your models here.
class Student(models.Model):
    name=models.CharField(max_length=20)
    course=models.CharField(max_length=20)
    mark=models.IntegerField()
    email=models.EmailField()
```

Step 4: Execute makemigrations and migrate command.

```
py manage.py makemigrations
Migrations for 'DisplayCardApp':
  DisplayCardApp\migrations\0001_initial.py
    - Create model Student
PS G:\FULL STACK PYTHON DJANGO DRF 11\DJANGO\Projects\P015\DisplayCard> py manage.py
migrate
Operations to perform:
  Apply all migrations: DisplayCardApp, admin, auth, contenttypes, sessions
Running migrations:
  Applying DisplayCardApp.0001_initial... OK
```

Step 5: Create superuser (py manage.py createsuperuser)
Username (leave blank to use 'user'): dj270
Email address:
Password: dj102423
Password (again): dj102423
Superuser created successfully.
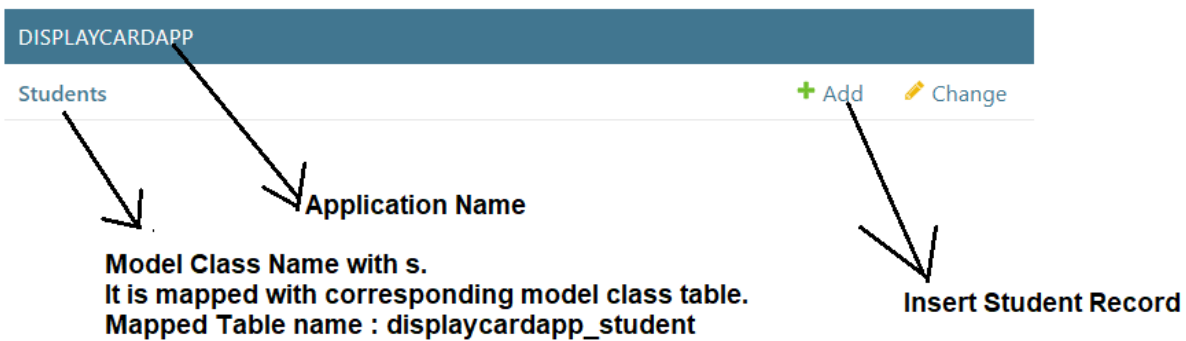Step 6: Run server and Login into DAI.
Step 7: Register Model class and Model admin class inside admin.py
admin.py

```python
from django.contrib import admin

from .models import Student

# Register your models here.


@admin.register(Student)
class StudentAdmin(admin.ModelAdmin):
    list_display=('id','name','course','mark','email')
```

DISPLAYCARDAPP

Students   + Add   ✏ Change

Application Name

Model Class Name with s.
It is mapped with corresponding model class table.
Mapped Table name : displaycardapp_student

Insert Student Record

Step 8: Add student records inside DAI

	Home › Displaycardapp › Students				
Start typing to filter...		✔ The student "Student object (4)" was changed successfully.			
AUTHENTICATION AND AUTHORIZATION		Select student to change			ADD STUDENT +
Groups	+ Add				
Users	+ Add	Action: --------- ✔ Go 0 of 4 selected			
DISPLAYCARDAPP		☐ ID NAME COURSE MARK EMAIL			
Students	+ Add	☐ 4 Jack BCA 71 jack@gmail.com			
		☐ 3 Zini BTech 79 zini@gmail.com			
		☐ 2 Priyanka MSc 65 priyanka@gmail.com			
		☐ 1 Rahul MCA 75 rahul@gmail.com			
		4 students			

Step 9: Retrieve all the records inside views.py file.

Views.py

```python
from django.shortcuts import render

from .models import Student
# Create your views here.

def retrieve_view(request):
    #get all the records from table
    all_records=Student.objects.all()
```

```
d={'all_records':all_records}
return render(request,'DisplayCardApp/records.html',d)
```

Step 10: Write the code to display all the records in the form of table inside template file(records.html)

records.html

```html
<!doctype html>
<html lang="en">
 <head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Bootstrap demo</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH" crossorigin="anonymous">
 </head>
 <body>
  <div class="container">
    <h3 class="text-center m-4 ">XYZ University Student Records</h3>
    <table class="table table-striped table-hover">
      <thead>
       <tr>
        <th scope="col">ID</th>
        <th scope="col">Name</th>
        <th scope="col">Course</th>
        <th scope="col">Mark</th>
        <th scope="col">Email</th>
       </tr>
      </thead>
      <tbody>
       {% for i in all_records %}
       <tr>
        <td>{{ i.id }}</td>
        <td><a href="#">{{ i.name }}</a></td>
```

```html
        <td>{{ i.course }}</td>
        <td>{{ i.mark }}</td>
        <td>{{ i.email }}</td>
      </tr>
      {% endfor %}


     </tbody>
    </table>
  </div>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz"
crossorigin="anonymous"></script>
 </body>
</html>
```

Step 11 : Run server and send HTTP request from browser

127.0.0.1:8000/DisplayCardApp/get_records/

XYZ University Student Records

ID	Name	Course	Mark	Email
1	Rahul	MCA	75	rahul@gmail.com
2	Priyanka	MSc	65	priyanka@gmail.com
3	Zini	BTech	79	zini@gmail.com
4	Jack	BCA	71	jack@gmail.com