**Module 4**

**Aim:** For students enrolment developed in Module 2, create a generic class view which displays list of students and detailview that displays student details for any selected student in the list.

**Objective:** The students will be able to

Creation of virtual environment, Django project and App to

**Concept / Theory:**

**1. For students enrolment developed in Module 2, create a generic class view which displays list of students and detailview that displays student details for any selected student in the list.**

**Note: This code is additional to the Programs executed in Module 2 (Lab 6) so please continue the editing that project itself.**

**In views.py of app**

```
from django.views import generic
class StudentListView(generic.ListView):
    model=student
    template_name="GenericListViewStudent.html"

class StudentDetailView(generic.DetailView):
    model=student
    template_name="GenericDetailedViewStudent.html"
```

**In basicTemplate.html**

```
<a href="/genericlistviewstudent/">GENERIC STUDENT LIST VIEW</a>|
```

**In GenericListViewStudent.html in templates folder under the app**

```
{% extends 'basicTemplate.html' %}
{% block title %} Generic Student List View {% endblock %}
{% block content %}
{% if student_list %}
<table border="1">
    <tr>
        <th>USN</th>
        <th>Courses Enrolled</th>
    </tr>
```

```
    {% for student in student_list %}
    <tr>
        <td>
            <a
href="/genericdetailedviewstudent/{{student.pk}}">{{student.usn}}</a>
        </td>
        <td>
            {% for course in student.courses.all %}
            <span>{{course.courseName}}</span>
            {% endfor %}
        </td>
    </tr>
    {% endfor %}
</table>
{% else %}
<h1>No Students Enrolled</h1>
{% endif %}
{% endblock %}
```

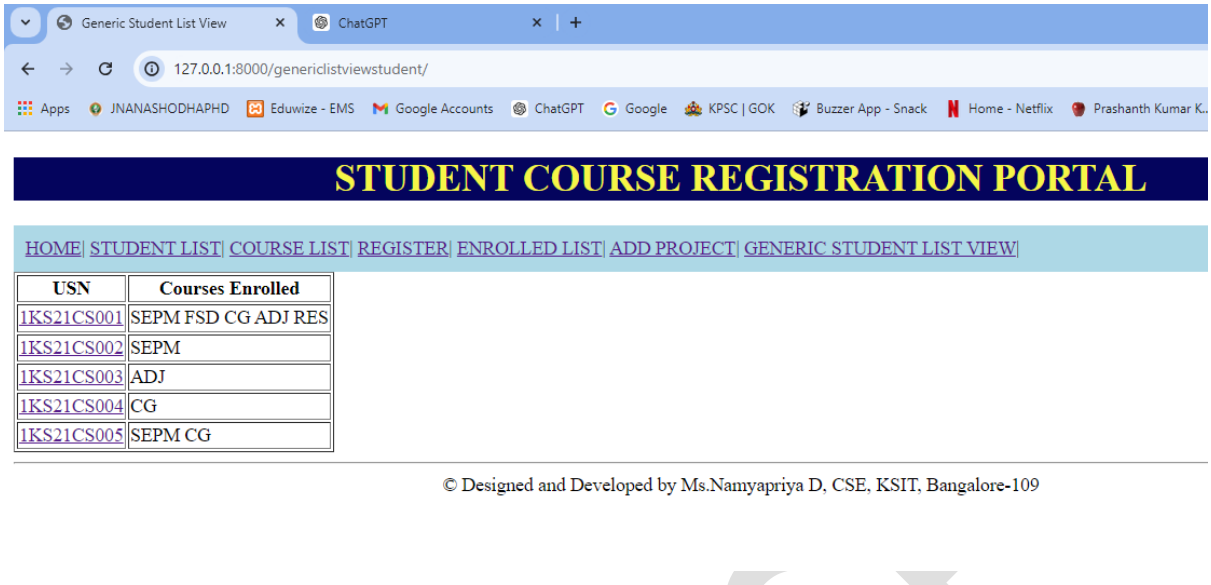
**In GenericDetailedViewStudent.html in templates folder under the app**

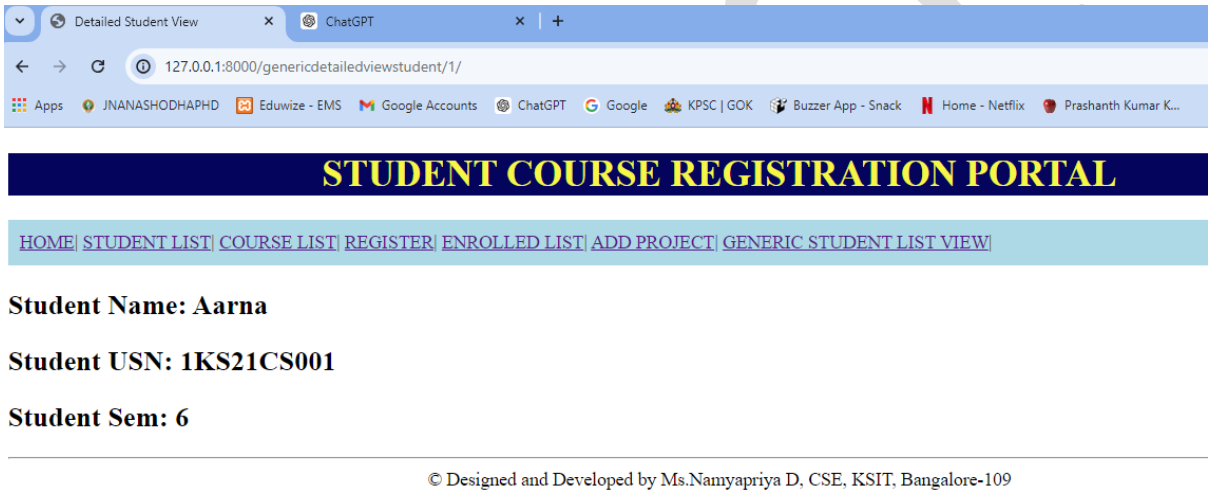
```
{% extends 'basicTemplate.html' %}
{% block title %} Detailed Student View {% endblock %}
{% block content %}

<h1> Student Name: {{student.name}}</h1>
<h1>Student USN: {{student.usn}}</h1>
<h1> Student Sem: {{student.sem}}</h1>

{% endblock %}
```

**In urls.py of Project**

```
from studCourseRegApp.views import home,
studentlist,courselist,register,enrolledStudents, add_project,
StudentListView,StudentDetailView
#In URL patterns
path('genericlistviewstudent/',StudentListView.as_view()),
path('genericdetailedviewstudent/<int:pk>/',StudentDetailView.as_view()),
```

**Outputs**




**Conclusion:** we were able to create a generic class view which displays list of students and detailview that displays student details for any selected student in the list.