



K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109

LABORATORY MANUAL 2023-2024 EVEN SEMESTER

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 %}

```

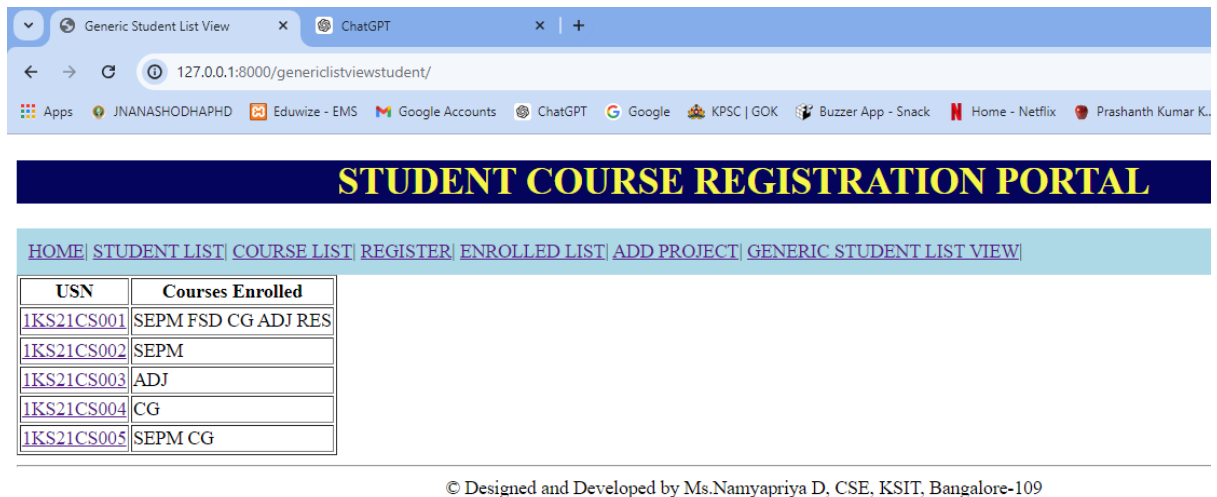
In urls.py of Project

```

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



Generic Student List View

127.0.0.1:8000/genericlistviewstudent/

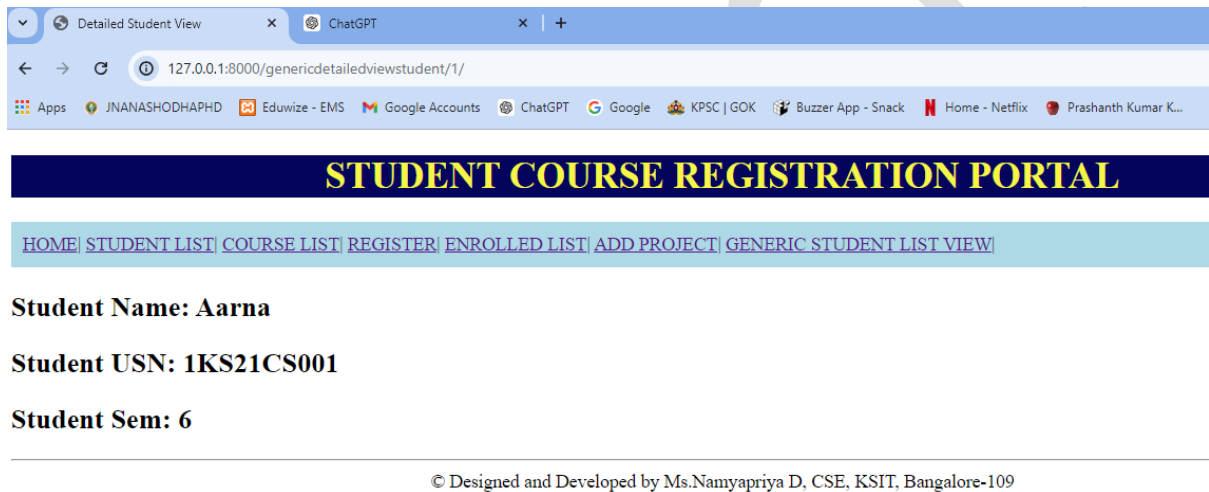
Apps JNANASHODHAPHD Eduwize - EMS Google Accounts ChatGPT Google KPSC | GOK Buzzer App - Snack Home - Netflix Prashanth Kumar K...

STUDENT COURSE REGISTRATION PORTAL

[HOME](#) [STUDENT LIST](#) [COURSE LIST](#) [REGISTER](#) [ENROLLED LIST](#) [ADD PROJECT](#) [GENERIC STUDENT LIST VIEW](#)

USN	Courses Enrolled
1KS21CS001	SEPM FSD CG ADJ RES
1KS21CS002	SEPM
1KS21CS003	ADJ
1KS21CS004	CG
1KS21CS005	SEPM CG

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Detailed Student View

127.0.0.1:8000/genericdetailedviewstudent/1/

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Student Name: Aarna

Student USN: 1KS21CS001

Student Sem: 6

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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.