



K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109

LABORATORY MANUAL 2023-2024 EVEN SEMESTER

Module 5

Aim: Develop a registration page for student enrolment as done in Module 2 but without page refresh using AJAX.

Objective: The students will be able to

Creation of virtual environment, Django project and App to

Concept / Theory:

1. Develop a registration page for student enrolment as done in Module 2 but without page refresh using AJAX

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

```
def registerajax(request):
    if request.method=="POST":
        sid=request.POST.get('susi')
        cid=request.POST.get('code')
        studentobj=student.objects.get(id=sid)
        courseobj=course.objects.get(id=cid)
        res=studentobj.courses.filter(id=cid)
        if res:
            resp="<h1>Already Registered to this course</h1>"
            return HttpResponseRedirect(resp)
        studentobj.courses.add(courseobj)
        resp="<h1>Successfully Registered</h1>"
        return HttpResponseRedirect(resp)
    else:
        studentobjs=student.objects.all()
        courseobjs=course.objects.all()
    return
render(request, 'CourseRegUsingAjax.html', {'studentlist':studentobjs, 'courselist':courseobjs})
```

In basicTemplate.html

```
<li> <a href="/CourseRegUsingAjax/">COURSE REGISTRATION USING
AJAX</a></li>
```

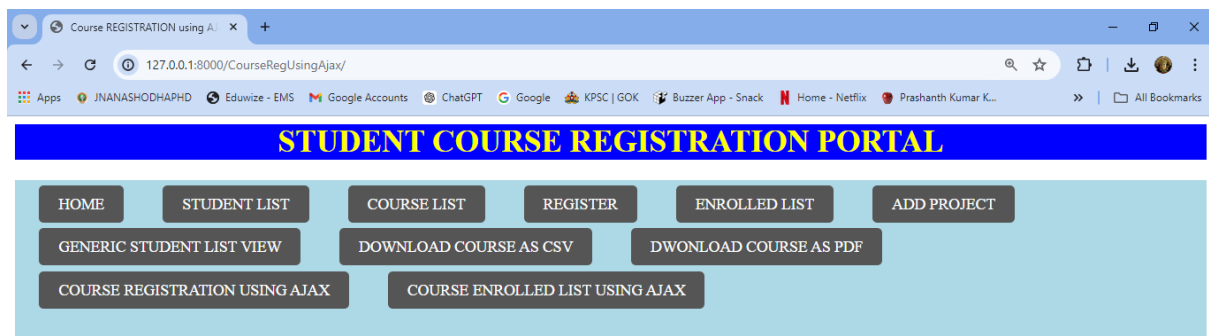
In CourseRegUsingAjax.html in templates folder under the app

```
{% extends 'basicTemplate.html' %}
{% block title %} Course REGISTRATION using AJAX call {% endblock %}
{% block content %}
<h1> Course Registration using AJAX call</h1>
<form action="" method="POST">
    {% csrf_token %}
    Select USN: <select name="student" id="susn">
        {%for s in studentlist%}
            <option value="{{s.id}}">{{s.usn}}</option>
        {% endfor %}
    </select>
    Select Course Code :
    <select name="course" id="ccode">
        {%for c in courselist%}
            <option value="{{c.id}}">{{c.courseCode}}</option>
        {% endfor %}
    </select>
    <input type="button" value="ENROLL" id="btn"/>
    <span id="resp"></span>
</form>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
<script>
    $(document).ready(function(){
        $("#btn").click(function(){
            var usn=$("#susn").val();
            var code=$("#ccode").val();
            $.ajax({
                type:"POST",
                url:"/CourseRegUsingAjax/",
                data: {'susn':usn,'ccode':code,csrfmiddlewaretoken:'{{csrf_token}}'},
                success:function(response){
                    $("#resp").html(response)
                },
            });
        });
    });
</script>
{% endblock %}
```

In urls.py of Project

```
path('CourseRegUsingAjax/',registerajax),
```

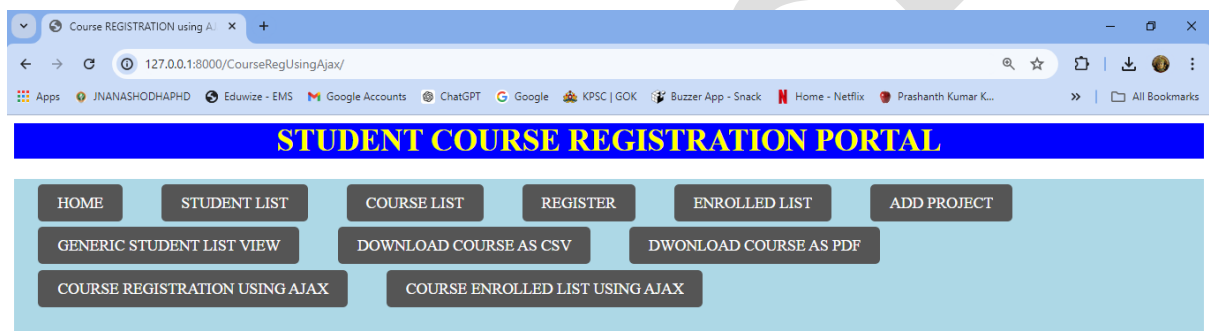
Outputs



Course Registration using AJAX call

Select USN: [1KS21CS001] Select Course Code : [21CS81] [ENROLL]

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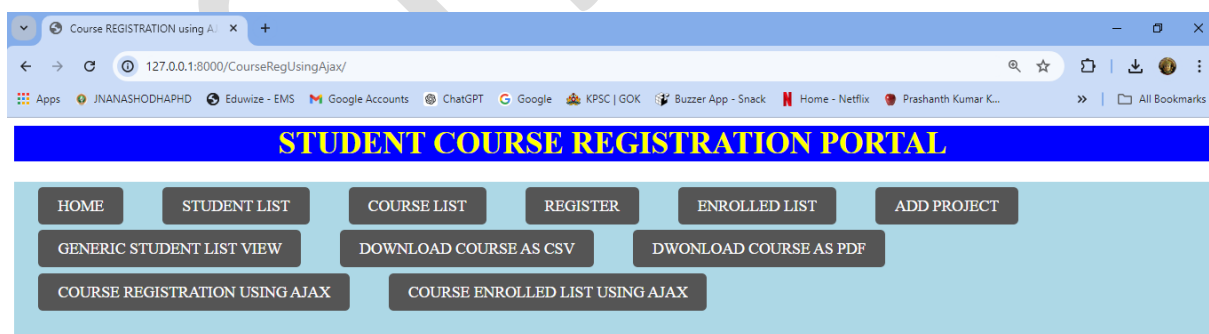


Course Registration using AJAX call

Select USN: [1KS21CS003] Select Course Code : [21CS62] [ENROLL]

Successfully Registered

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Course Registration using AJAX call

Select USN: [1KS21CS002] Select Course Code : [21CS62] [ENROLL]

Already Registered to this course

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Conclusion: we were able to Develop a registration page for student enrolment as done in Module 2 but without page refresh using AJAX.