

Name:- Tanishq. Dhokariya

Technology:- DJANGO, HTML

BACKEND

- **Add Course Entity:**

```
from django.db import models

class Course(models.Model):
    course_id = models.AutoField(primary_key=True)
    course_name = models.CharField(max_length=100)
    course_code = models.CharField(max_length=20, unique=True)
    course_duration = models.IntegerField()

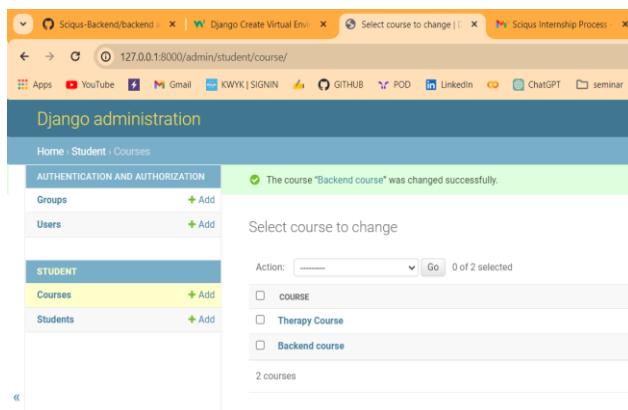
    def __str__(self):
        return f"{self.course_name}"

class Student(models.Model):
    student_id = models.AutoField(primary_key=True)
    name = models.CharField(max_length=100)
    # Add other student fields
    course = models.ForeignKey(Course, on_delete=models.CASCADE)

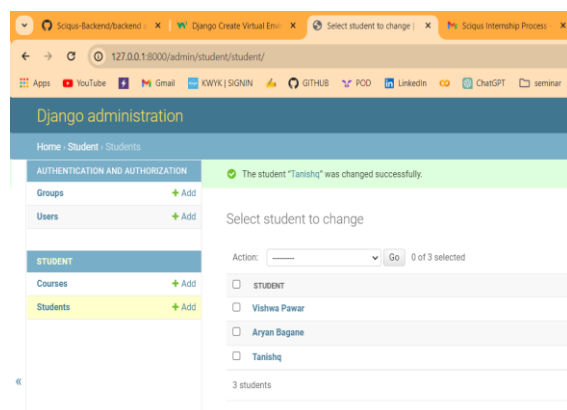
    def __str__(self):
        return f"{self.name}"
```

<http://127.0.0.1:8000/admin/>

Course:



Students:



- Enhance Student Registration:

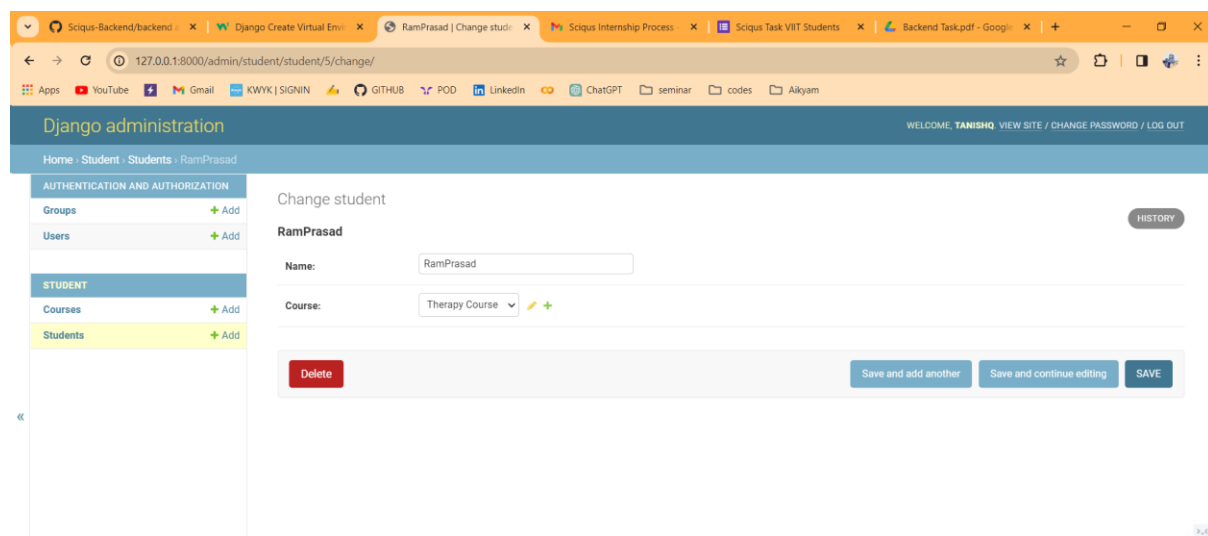
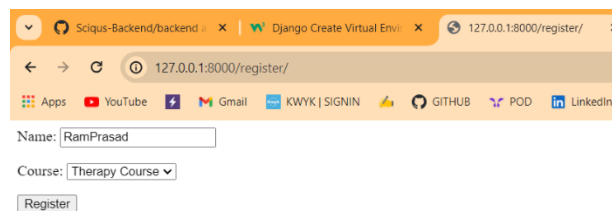
```
def register_student(request):
    if request.method == 'POST':
        form = StudentRegistrationForm(request.POST)
        if form.is_valid():
            form.save()
            return redirect('success_page') # Redirect to a success page or
any other page
        else:
            form = StudentRegistrationForm()

    return render(request, 'student/registration_template.html', {'form':
form})
```

Form

```
<form method="post" action="{% url 'register_student' %}">
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit">Register</button>
</form>
```

<http://127.0.0.1:8000/register/>



- **Show Student Details with Course Information:**

```
from .models import Student

def student_list(request):
    students = Student.objects.select_related('course').all()
    # Use select_related to fetch related course information in a single query

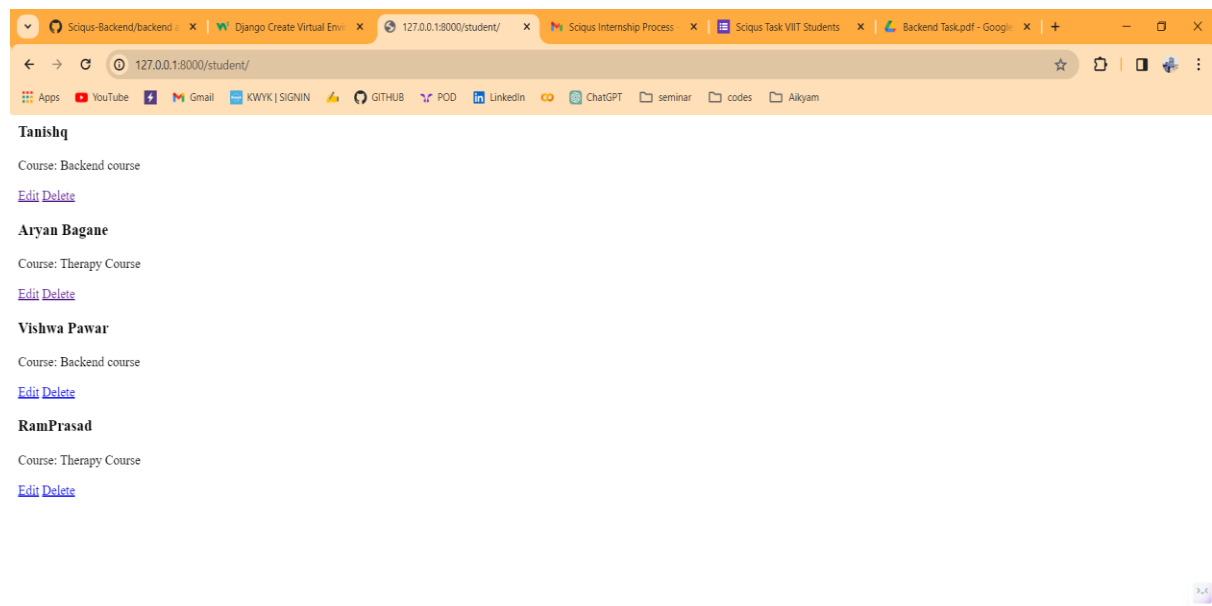
    context = {'students': students}
    return render(request, 'student/student_list.html', context)
```

```
{% for student in students %}
<div>
  <h3>{{ student.name }}</h3>
  <p>Course: {{ student.course.course_name }}</p>

  <!-- Edit Button -->
  <a href="{% url 'edit_student' student.pk %}">Edit</a>

  <!-- Delete Button -->
  <a href="{% url 'delete_student' student.pk %}">Delete</a>
</div>
{% endfor %}
```

<http://127.0.0.1:8000/student/>



- **Show all Students Details Enroll in the Course:**

```
from .models import Student, Course

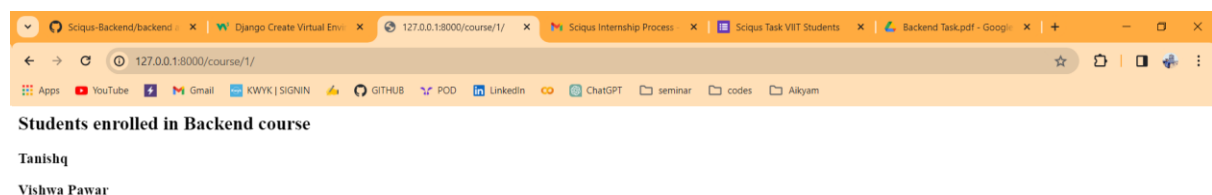
def students_in_course(request, course_id):
    course = get_object_or_404(Course, pk=course_id)
    students = Student.objects.filter(course=course)

    context = {'course': course, 'students': students}
    return render(request, 'student/students_in_course.html', context)
```

```
<h2>Students enrolled in {{ course.course_name }}</h2>

{% for student in students %}
  <div>
    <h3>{{ student.name }}</h3>
    <!-- Add other student information as needed -->
  </div>
{% endfor %}
```

<http://127.0.0.1:8000/course/1/>



- **Edit Student Details with Course Modification:**

```
def edit_student(request, student_id):
    student = get_object_or_404(Student, pk=student_id)

    if request.method == 'POST':
        form = StudentUpdateForm(request.POST, instance=student)
        if form.is_valid():
            form.save()
            return redirect('student_list')
    else:
        form = StudentUpdateForm(instance=student)

    return render(request, 'student/edit_student.html', {'form': form,
'student': student})
```

```
<form method="post" action="">
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit">Update</button>
</form>
```

<http://127.0.0.1:8000/student/1/edit/>

Sciquis-Backend/backend x Django Create Virtual Envi x 127.0.0.1:8000/student/1/e x Sciquis Internship Process x

127.0.0.1:8000/student/1/edit/

Apps YouTube Gmail KWKYK | SIGNIN GITHUB POD LinkedIn ChatGPT seminar

Name:

Course:

Sciquis-Backend/backend x Django Create Virtual Envi x 127.0.0.1:8000/student/ x Sciquis Internship Process x

127.0.0.1:8000/student/

Apps YouTube Gmail KWKYK | SIGNIN GITHUB POD LinkedIn ChatGPT seminar

Tanishq Dhokariya
Course: Backend course
[Edit](#) [Delete](#)

Aryan Bagane
Course: Therapy Course
[Edit](#) [Delete](#)

Vishwa Pawar
Course: Backend course
[Edit](#) [Delete](#)

RamPrasad
Course: Therapy Course
[Edit](#) [Delete](#)

- **Delete Students with Course Deletion:**

```
def delete_student(request, student_id):
    student = get_object_or_404(Student, pk=student_id)

    if request.method == 'POST':
        # Delete the student
        student.delete()
```

```
# Redirect to the list of students or any other page
return redirect('student_list')

return render(request, 'student/delete_student.html', {'student':
student})
```

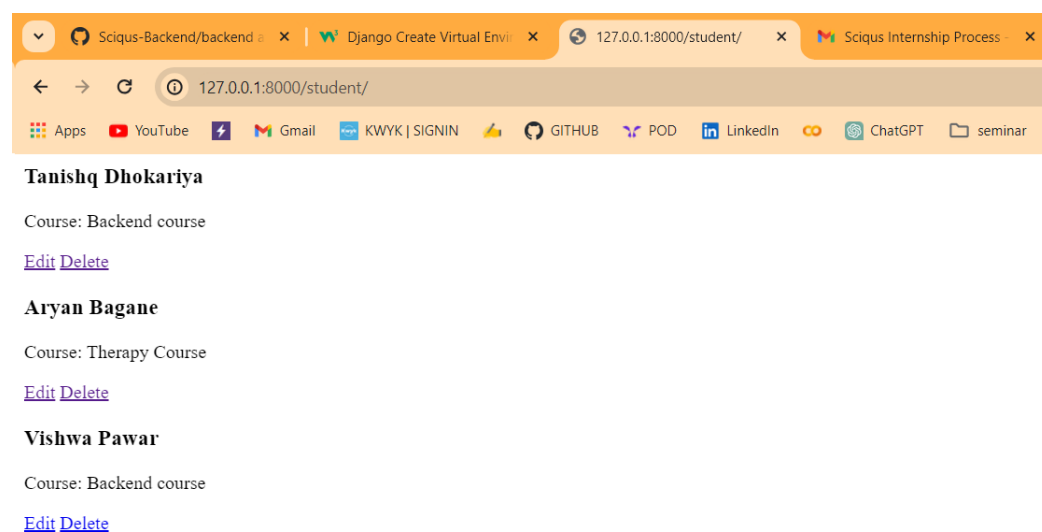
```
<h2>Are you sure you want to delete {{ student.name }}?</h2>

<form method="post" action="">
    {% csrf_token %}
    <button type="submit">Yes, delete</button>
    <a href="{% url 'student_list' %}">Cancel</a>
</form>
```

<http://127.0.0.1:8000/student/5/delete/>



The screenshot shows a web browser with the address bar displaying `127.0.0.1:8000/student/5/delete/`. The browser's tab bar includes several open tabs: "Sciqus-Backend/backend", "Django Create Virtual Envi...", "127.0.0.1:8000/student/5/d...", and "Sciqus Internship Process". The browser's address bar also shows the URL `127.0.0.1:8000/student/5/delete/`. Below the address bar, there is a navigation bar with various icons for apps, YouTube, Gmail, KWKY | SIGNIN, GITHUB, POD, LinkedIn, ChatGPT, and seminar. The main content area of the browser displays the text "Are you sure you want to delete RamPrasad?". Below this text, there are two buttons: "Yes, delete" and "Cancel".



The screenshot shows a web browser with the address bar displaying `127.0.0.1:8000/student/`. The browser's tab bar includes several open tabs: "Sciqus-Backend/backend", "Django Create Virtual Envi...", "127.0.0.1:8000/student/", and "Sciqus Internship Process". The browser's address bar also shows the URL `127.0.0.1:8000/student/`. Below the address bar, there is a navigation bar with various icons for apps, YouTube, Gmail, KWKY | SIGNIN, GITHUB, POD, LinkedIn, ChatGPT, and seminar. The main content area of the browser displays a list of students. The first student is "Tanishq Dhokariya", with the course "Backend course" and links for "Edit" and "Delete". The second student is "Aryan Bagane", with the course "Therapy Course" and links for "Edit" and "Delete". The third student is "Vishwa Pawar", with the course "Backend course" and links for "Edit" and "Delete".

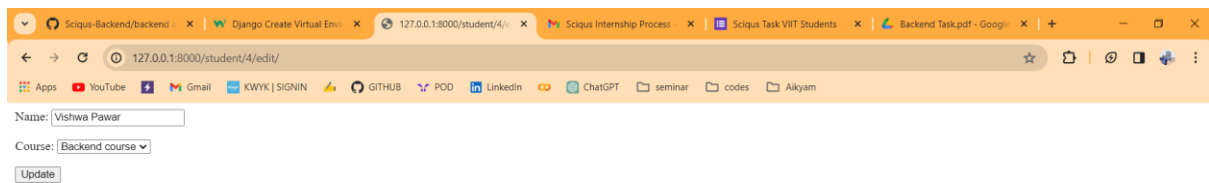
- Include Transaction Management:

```
@transaction.atomic

def edit_student(request, student_id):
    student = get_object_or_404(Student, pk=student_id)

    if request.method == 'POST':
        form = StudentUpdateForm(request.POST, instance=student)
        if form.is_valid():
            form.save()
            return redirect('student_list')
    else:
        form = StudentUpdateForm(instance=student)

    return render(request, 'student/edit_student.html', {'form': form,
    'student': student})
```



The screenshot shows a web browser window with multiple tabs. The active tab is titled '127.0.0.1:8000/student/4/edit/'. The browser's address bar shows the URL '127.0.0.1:8000/student/4/edit/'. Below the address bar, there is a navigation bar with various icons and links. The main content area displays a form with two input fields: 'Name: Vishwa Pawar' and 'Course: Backend course'. Below these fields is an 'Update' button.