

MYSORE UNIVERSITY SCHOOL OF ENGINEERING

Manasagangotri campus, Mysuru-570006 (Approved by AICTE, New Delhi)



UNIVERSITY OF MYSORE

Full Stack Development(21CD71) Assessment Report On:

"ONLINE COURSE ENROLLMENT SYSTEM"

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ONLINE COURSE ENROLLMENT SYSTEM - DJANGO PROJECT REPORT

INTRODUCTION

The **Online Course Enrollment System** is a Django-based web application that allows students to enroll in multiple courses seamlessly. The system provides a user friendly interface for course registration and enables viewing all enrolled students. Enrollment data is securely stored and managed via the **Django Admin Panel**. After successful enrollment, students are redirected to a confirmation page for a smooth experience.

KEY FEATURES:

- ✓ User-friendly course enrollment form
- ✓ Admin panel for managing students and courses
- ✓ Confirmation page after successful enrollment
- ✓ ListView to display available courses and enrolled students

TECHNOLOGIES USED

The project is developed using the following technologies:

• **Backend:** Django (Python Web Framework)

• Frontend: HTML, CSS

• Database: SQLite3

• **Development Environment:** VS Code

• Version Control: GitHub

PROJECT SETUP

Installation Steps:

Install Django:

pip install django

Create Django Project & App: django-admin startprojectcourse_enrollment cd course_enrollment python manage.py startapp enrollments Apply Migrations & Run Server: python manage.py migrate python manage.py runserver FOLDER STRUCTURE: course_enrollment/ — enrollments/

– migrations/

– templates/

- models.py

- views.py

- urls.py

- db.sqlite3

- manage.py

- course_enrollment/

— enrollments/style.css

— enrollments/course_list.html

- enrollments/success.html

- enrollments/enrollment_form.html

- static/

MODELS (DATABASE STRUCTURE)

The **Course** and **Student** models are used to store student and course data in the database with a **many-to-many relationship** for enrollment.

models.py file:

```
from django.db import models

class Course(models.Model):

name = models.CharField(max_length=200)

description = models.TextField()

def __str__(self):

return self.name

class Student(models.Model):

name = models.CharField(max_length=100)

email = models.EmailField(unique=True)

courses = models.ManyToManyField(Course, related_name="students")

def __str__(self):

return self.name
```

FORMS & VIEWS

The **Enrollment Form** collects student details and allows them to enroll in courses.

forms.py file:

```
from django import forms

from .models import Student

class EnrollmentForm(forms.ModelForm):

class Meta:

model = Student
fields = ['name', 'email', 'courses']
```

```
views.py file:
```

```
from django.shortcuts import render, redirect
from django.views.generic import ListView
from django.urls import reverse_lazy
from .models import Course, Student
from .forms import EnrollmentForm
class CourseListView(ListView):
   model = Course
   template_name = 'enrollments/course_list.html'
   context_object_name = 'courses'
class StudentListView(ListView):
   model = Student
   template_name = 'enrolled_students.html'
   context_object_name = 'students'
def enroll_student(request):
   if request.method == "POST":
       form = EnrollmentForm(request.POST)
     if form.is_valid():
        student = form.save(commit=False)
        student.save()
        form.save_m2m()
        return redirect(reverse_lazy("enrollment_success"))
    else:
```

```
form = EnrollmentForm()
    return render(request, "enroll.html", {"form": form})
def enrollment_success(request):
    return render(request, 'enrollments/success.html')
Users are redirected to a success page after submitting the enrollment form.
URL CONFIGURATION
Project-level (course_enrollment/urls.py) and app-level (enrollments/urls.py) URL patterns are defined
as follows:
# Project URLs (course_enrollment/urls.py)
from django.contrib import admin
from django.urls import path, include
urlpatterns = [
path('admin/', admin.site.urls),
path(", include('enrollments.urls')),
]
# App URLs (enrollments/urls.py)
from django.urls import path
from .views import CourseListView, StudentListView, enroll_student, enrollment_success
urlpatterns = [
path('courses/', CourseListView.as_view(), name='course_list'),
path('students/', StudentListView.as_view(), name='enrolled_students'),
path('enroll/', enroll_student, name='enroll'),
path('success/', enrollment_success, name='enrollment_success'),
```

]

TEMPLATES

Templates (HTML Files):

• course_list.html → Landing page

```
enrollments > templates > enrollments > O course_listhtml

| ClDCTYPE html | Chml lang="en" | Course_listhtml
| ClmcTYPE html | Chml lang="en" | Chml lang="en" | Course_listhtml
| ClmcTYPE html | Chml lang="en" | Chml lang="en"
```

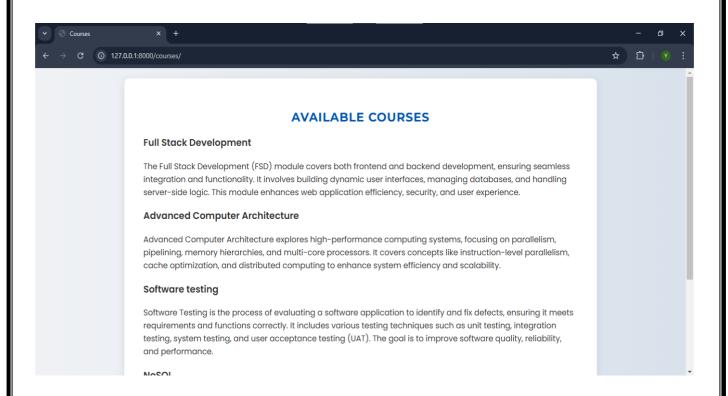
• enroll.html → Course enrollment form

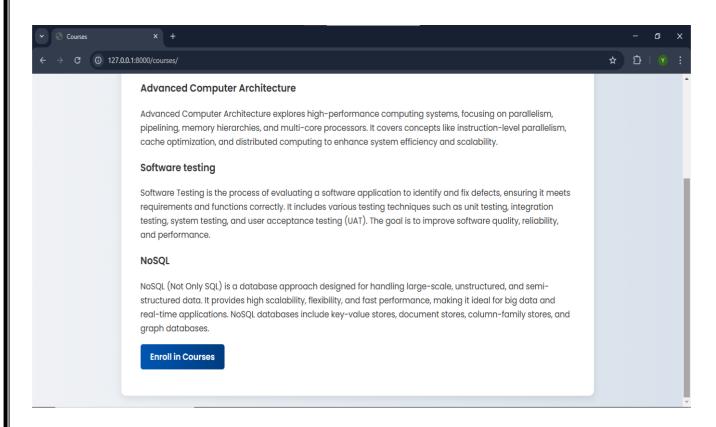
• success.html → Enrollment Successfully Completed message

• enrolled_students.html → Displays the list of enrolled students and their courses

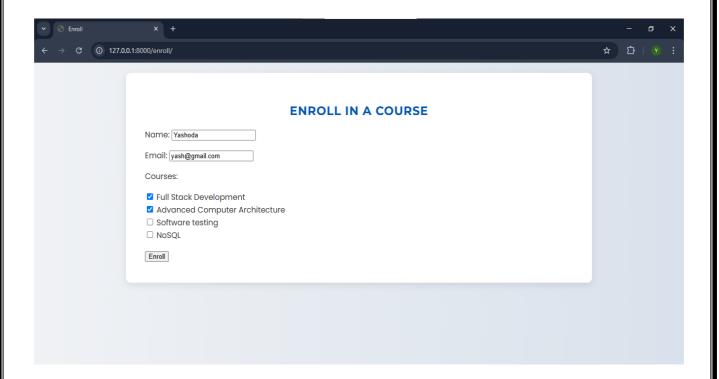
SCREENSHOTS

Home Page Screenshot → Screenshot of course_list.html, which serves as the landing page displaying all available courses

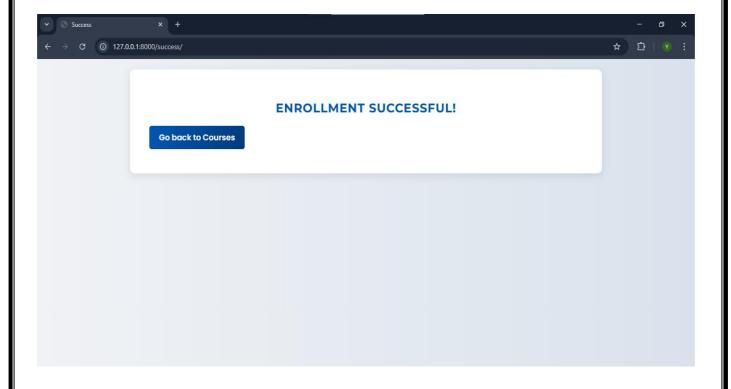




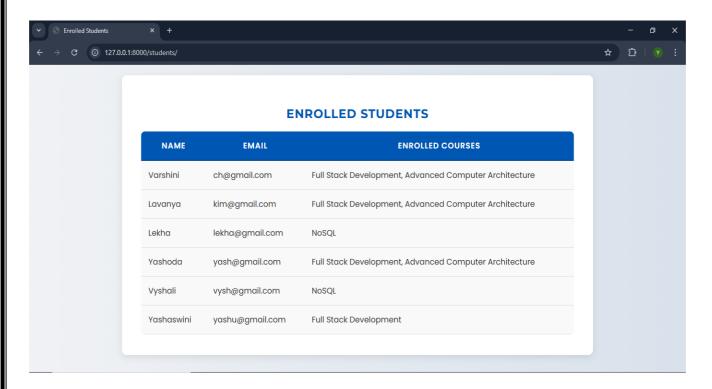
Course Enrollment Form Screenshot → Screenshot of enroll.html, which contains the form for students to enroll in courses



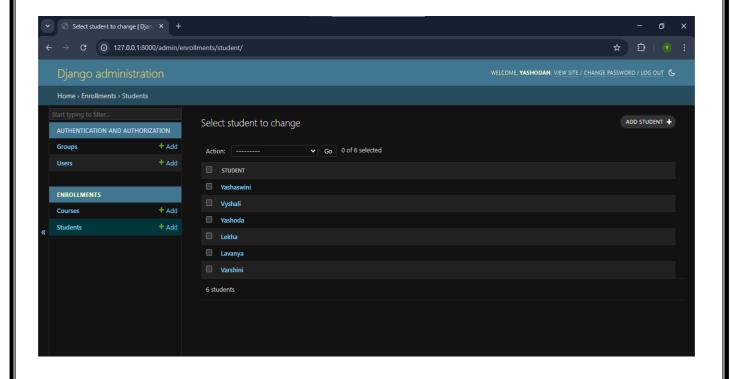
Success Page ScreenShot → Screenshot of success.html, which confirms successful course enrollment



Enrolled Students Page Screenshot → Screenshot of enrolled_students.html, which displays the list of students along with their enrolled courses



Admin Panel Screenshot → Screenshot of Django Admin Panel, showing the management of students and courses



Implement reverse_lazy() to redirect students to Confirmation page