

## **models.py**

```
from django.db import models

class Student(models.Model):
    name = models.CharField(max_length=100)
    roll_number = models.CharField(max_length=20)
    gender = models.CharField(max_length=10)
    email = models.EmailField()
    department = models.CharField(max_length=100)

    def __str__(self):
        return self.name
```

## **forms.py**

```
from django import forms
from .models import Student

class student_form(forms.ModelForm):
    class Meta:
        model = Student
        fields = ['name', 'roll_number', 'gender', 'email', 'department']
```

## **views.py**

```
from django.shortcuts import render
from .forms import student_form
from .models import Student

def register_view(request):
    form = student_form(request.POST or None)
    submitted = False
    if form.is_valid():
        form.save()
        submitted = True
    context = {
        'form': form,
        'submitted': submitted
    }
    return render(request, 'register.html', context)

def student_view(request):
    data = Student.objects.all()
    return render(request, 'students.html', {'data': data})
```

## **urls.py**

```
from django.urls import path
from . import views

urlpatterns = [
    path("", views.register_view, name="register"),
    path("students/", views.student_view, name="student"),
]
```

## register.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Registration Site</title>
  <link rel="stylesheet" href="/home/exam2/Documents/Exam/css/bootstrap.min.css">
  <style>
    body { background-color: #121212; color: white; padding: 30px; }
    .container { max-width: 600px; }
    label { color: #ddd; }
  </style>
</head>
<body>
  <div class="container">
    <h1 class="text-center">Enter Details</h1>
    <form name="form" method="post" onsubmit="return validation()">
      {% csrf_token %}
      {{ form.as_p }}
      <button type="submit" class="btn btn-light w-100 mt-2">Submit</button>
    </form>
    {% if submitted %}
      <div class="alert alert-success text-center mt-3">Registration
Successful</div>
    {% endif %}
  </div>

  <script>
    function validation() {
      var name = document.forms["form"]["name"].value.trim();
      var roll = document.forms["form"]["roll_number"].value.trim();
      var gender = document.forms["form"]["gender"].value.trim();
      var email = document.forms["form"]["email"].value.trim();
      var dept = document.forms["form"]["department"].value.trim();

      var emailPattern = /^[^ ]+@[^ ]+\.[a-z]{2,3}$/;
      var rollPattern = /^[a-zA-Z0-9\-]+$/;

      if (name === "" || roll === "" || gender === "" || email === "" || dept ===
"" ) {
        alert("All fields are required.");
        return false;
      }

      if (!emailPattern.test(email)) {
        alert("Please enter a valid email address.");
        return false;
      }

      if (!rollPattern.test(roll)) {
        alert("Roll number must be alphanumeric.");
        return false;
      }
    }
  </script>
</body>
</html>
```

```

        return true;
    }
</script>
</body>
</html>

```

## students.html

```

<!DOCTYPE html>
<html>
<head>
    <title>Registered Students</title>
    <link rel="stylesheet" href="/home/exam2/Documents/Exam/css/bootstrap.min.css">
    <style>
        body { background-color: #121212; color: white; padding: 30px; }
        table { background-color: #1e1e1e; }
        th, td { color: #eee; }
    </style>
</head>
<body>
    <div class="container">
        <h2 class="text-center mb-4">Enrolled Students</h2>
        <table class="table table-bordered table-dark table-striped">
            <thead>
                <tr>
                    <th>Name</th>
                    <th>Roll Number</th>
                    <th>Gender</th>
                    <th>Email</th>
                    <th>Department</th>
                </tr>
            </thead>
            <tbody>
                {% for s in data %}
                    <tr>
                        <td>{{ s.name }}</td>
                        <td>{{ s.roll_number }}</td>
                        <td>{{ s.gender }}</td>
                        <td>{{ s.email }}</td>
                        <td>{{ s.department }}</td>
                    </tr>
                {% empty %}
                    <tr><td colspan="5" class="text-center">No students registered
yet.</td></tr>
                {% endfor %}
            </tbody>
        </table>
    </div>
</body>
</html>

```