## S1: create project, app, templates, html and forms

```
C:\demo\django\feb_2023\L9>django-admin startproject p1_cmsproject
C:\demo\django\feb_2023\L9>cd p1_cmsproject
C:\demo\django\feb_2023\L9\p1_cmsproject>python manage.py startapp cmsapp
C:\demo\django\feb_2023\L9\p1_cmsproject>cd cmsapp
C:\demo\django\feb_2023\L9\p1_cmsproject\cmsapp>mkdir templates
C:\demo\django\feb_2023\L9\p1_cmsproject\cmsapp>cd templates
C:\demo\django\feb_2023\L9\p1_cmsproject\cmsapp\templates>notepad home.html
C:\demo\django\feb_2023\L9\p1_cmsproject\cmsapp\templates>notepad dept.html
C:\demo\django\feb_2023\L9\p1_cmsproject\cmsapp\templates>notepad adddept.html
C:\demo\django\feb_2023\L9\p1_cmsproject\cmsapp\templates>notepad stu.html
C:\demo\django\feb_2023\L9\p1_cmsproject\cmsapp\templates>notepad addstu.html
C:\demo\django\feb_2023\L9\p1_cmsproject\cmsapp\templates>cd..
C:\demo\django\feb_2023\L9\p1_cmsproject\cmsapp>notepad forms.py
C:\demo\django\feb_2023\L9\p1_cmsproject\cmsapp>cd..
S2: settings.py
INSTALLED_APPS = [
  'django.contrib.admin',
  'django.contrib.auth',
  'django.contrib.contenttypes',
  'django.contrib.sessions',
  'django.contrib.messages',
  'django.contrib.staticfiles',
  'cmsapp',
S3: urls.py
from django.contrib import admin
from django.urls import path
from cmsapp.views import home, dept, adddept, remdept, stu, addstu, remstu
urlpatterns = [
 path('admin/', admin.site.urls),
  path("", home, name="home"),
  path("dept", dept, name="dept"),
  path("adddept", adddept, name="adddept"),
  path("remdept/<int:id>", remdept, name="remdept"),
  path("stu", stu, name="stu"),
  path("addstu", addstu, name="addstu"),
  path("remstu/<int:id>", remstu, name="remstu"),
```

```
S4: models.py
from django.db import models
class DeptModel(models.Model):
       did = models.IntegerField(primary_key=True)
       dname = models.CharField(max_length=30)
       def __str__(self):
              return str(self.dname)
class StuModel(models.Model):
       rno = models.IntegerField(primary_key=True)
       name = models.CharField(max_length=30)
       dept = models.ForeignKey(DeptModel, on_delete=models.CASCADE)
       def __str__(self):
              return str(self.name)
S5: forms.py
from django import forms
from .models import DeptModel, StuModel
class DeptForm(forms.ModelForm):
       class Meta:
              model = DeptModel
              fields = "__all__"
class StuForm(forms.ModelForm):
       class Meta:
              model = StuModel
              fields = " all
```

```
S6: views.py
from django.shortcuts import render, redirect
from .models import DeptModel, StuModel
from .forms import DeptForm, StuForm
def home(request):
       return render(request, "home.html")
def dept(request):
       data = DeptModel.objects.all()
       return render(request, "dept.html", {"data":data})
def adddept(request):
       if request.method == "POST":
               data = DeptForm(request.POST)
               if data.is_valid():
                       data.save()
                       msg = "dept created"
                       fm = DeptForm()
                       return render(request, "adddept.html", {"fm":fm, "msg":msg})
               else:
                       msg = "check errors"
                       return render(request, "adddept.html", {"fm":data, "msg":msg})
       else:
               fm = DeptForm()
               return render(request, "adddept.html", {"fm":fm})
def remdept(request, id):
       de = DeptModel.objects.get(did=id)
       de.delete()
       return redirect("dept")
def stu(request):
       data = StuModel.objects.all()
       return render(request, "stu.html", {"data":data})
```

```
def addstu(request):
              if request.method == "POST":
                     data = StuForm(request.POST)
                     if data.is_valid():
                             data.save()
                             msg = "student created"
                             fm = StuForm()
                             return render(request, "addstu.html", {"fm":fm, "msg":msg})
                     else:
                             msg = "check errors"
                             return render(request, "addstu.html", {"fm":data, "msg":msg}
              else:
                     fm = StuForm()
                     return render(request, "addstu.html", {"fm":fm})
       def remstu(request, id):
              s = StuModel.objects.get(rno=id)
              s.delete()
              return redirect("stu")
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```

## S7: all html files

```
home.html
```

```
<html>
             <head>
                    <title> Welcome to KIT </title>
                    <style>
                           * { font-size: 40px; }
                           .nav { background-color:coral; }
                           .nav a { color:white; text-decoration:none; margin:6%; }
                    </style>
             </head>
             <body>
             <center>
                    <div class="nav">
                           <a href="{% url 'home' %}"> Home </a>
                           <a href="{% url 'dept' %}"> Department </a>
                           <a href="{% url 'stu' %}"> Student </a>
                    </div>
                    <h1> Home Page </h1>
             </center>
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             </body>
```

```
dept.html
<html>
      <head>
            <title> Welcome to KIT </title>
            <style>
                  * { font-size: 40px; }
                  .nav { background-color:coral; }
                  .nav a { color:white; text-decoration:none; margin:6%; }
            </style>
      </head>
      <body>
      <center>
            <div class="nav">
                  <a href="{% url 'home' %}"> Home </a>
                  <a href="{% url 'dept' %}"> Department </a>
                  <a href="{% url 'stu' %}"> Student </a>
            </div>
            <h1> Dept Page </h1>
                  <a href="{% url 'adddept' %}"> Add Department </a>
                  <br>
                                     <br>
             Dept Id 
                          Dept Name 
                          Delete 
                  {% for d in data %}
                   {{ d.did }} 
                          {{ d.dname }}
                          <a href="{% url 'remdept' id=d.did %}" onclick="return
confirm('r u sure???') "> Delete </a> 
                  {% endfor %}
```

</center>

</body>

</html>

## adddept.html

```
<html>
       <head>
              <title> Welcome to KIT </title>
              <style>
                     * { font-size: 40px; }
                     .nav { background-color:coral; }
                     .nav a { color:white; text-decoration:none; margin:6%; }
              </style>
       </head>
       <body>
       <center>
              <div class="nav">
                     <a href="{% url 'home' %}"> Home </a>
                     <a href="{% url 'dept' %}"> Department </a>
                     <a href="{% url 'stu' %}"> Student </a>
              </div>
              <h1> Add Dept Page </h1>
              <form method="POST">
                     {% csrf_token %}
                     {{ fm.as_table }
                     <input type="Submit" />
              </form>
              {{ msg }}
       </center>
       </body>
</html>
```

```
stu.html
<html>
      <head>
            <title> Welcome to KIT </title>
            <style>
                  * { font-size: 40px; }
                  .nav { background-color:coral; }
                  .nav a { color:white; text-decoration:none; margin:6%; }
            </style>
      </head>
      <body>
      <center>
            <div class="nav">
                  <a href="{% url 'home' %}"> Home </a>
                  <a href="{% url 'dept' %}"> Department </a>
                  <a href="{% url 'stu' %}"> Student </a>
            </div>
            <h1> Student Page </h1>
                  <a href="{% url 'addstu' %}"> Add Student </a>
                  <br>
                                     <br>
             Rno 
                         Name 
                         Dept 
                         Delete 
                  {% for d in data %}
                   {{ d.rno }} 
                         {{ d.name }}
                         {{ d.dept }}
                         <a href="{% url 'remstu' id=d.rno %}" onclick="return
confirm('r u sure???') "> Delete </a> 
                  {% endfor %}
            </center>
      </body>
```

</html>

## addstu.html

```
<html>
       <head>
              <title> Welcome to KIT </title>
              <style>
                     * { font-size: 40px; }
                     .nav { background-color:coral; }
                     .nav a { color:white; text-decoration:none; margin:6%; }
              </style>
       </head>
       <body>
       <center>
              <div class="nav">
                     <a href="{% url 'home' %}"> Home </a>
                     <a href="{% url 'dept' %}"> Department </a>
                     <a href="{% url 'stu' %}"> Student </a>
              </div>
              <h1> Add Student Page </h1>
              <form method="POST">
                     {% csrf_token %}
                     {{ fm.as_table }}
                     <input type="Submit" />
              </form>
              {{ msg }}
       </center>
       </body>
</html>
s8: mm, mi and rs
C:\demo\django\feb_2023\L9\p1_cmsproject>python manage.py makemigrations
C:\demo\django\feb_2023\L9\p1_cmsproject>python manage.py migrate
C:\demo\django\feb_2023\L9\p1_cmsproject>python manage.py runserver
```