**CRUD Operations in Django:**

1. Creating a project SchoolProject in the current directory.

django-admin startproject SchoolProject

2. Move to that current directory

cd SchoolProject

3. To run the server if server is working

python manage.py runserver

4. Go to browser window and type this url <http://127.0.0.1:8000>

After checking the servers is worked and drag and drop the SchoolProject into the atom IDE.

**Creating an Application**

Here we are creating the first application name as admissions

1. Creating an application admissions

django-admin startapp admissions

**settings.py(SchoolProject)**

import os

TEMPLATES=[

{

'DIRS':[os.path.join(BASE\_DIR,"templates")],

}

]

INSTALLED\_APPS = [

    'django.contrib.admin',

    'django.contrib.auth',

    'django.contrib.contenttypes',

    'django.contrib.sessions',

    'django.contrib.messages',

    'django.contrib.staticfiles',

    'admissions',

]

DATABASES={

'default':{

'ENGINE':'django.db.backends.mysql',

'NAME':'schoolapp',

'USER':'root',

'PASSWORD':'',

'HOST':'localhost',

'PORT':'3306',

}

}

STATIC\_URL= '/static/'

**models.py(admissions app)**

from django.db import models

class student(models.Model):

name = models.CharField(max\_length=100)

fathername = models.CharField(max\_length=100)

classname = models.IntegerField()

contact = models.CharField(max\_length=100)

**makemigrations command:**

python manage.py makemigrations

python manage.py sqlmigrate admissions 0001

**migrate command:**

python manage.py migrate

**forms.py (admissions app)**

from django import forms

from admissions.models import student

class StudentModelForm(forms.ModelForm):

class Meta:

model=student

fields='\_\_all\_\_'

**views.py (admissions app)**

from django.shortcuts import render

from admissions.models import student

from admissions.forms import StudentModelForm

def homepage(request):

return render(request,'index.html')

def addadmission(request):

form=StudentModelForm

studentform= {'form':form}

if request.method=="POST":

form=StudentModelForm(request.POST)

if form.is\_valid():

form.save()

return render(request,'admissions/addadmission.html',studentform)

def admissionreport(request):

result=student.objects.all();

students={ 'allstudents':result}

return render(request, 'admissions/admissionreport.html',students)

def delstudent(request,id):

s=student.objects.get(id=id)

s.delete()

return admissionreport(request)

def updatestudent(request,id):

s=student.objects.get(id=id)

form=StudentModelForm(instance=s)

dict={ 'form':form}

if request.method== "POST":

form=StudentModelForm(request.POST,instance=s)

if form.is\_valid():

form.save()

return render(request, 'admissions/updateadmissions.html',dict)

**Creating urls.py file in admission application**

**urls.py**

from django.urls **import** path

from admissions.views import addadmission

from admissions.views **import** admissionreport

from admissions.views import delstudent

from admissions.views import updatestudent

urlpatterns = [

    path('newadm/', addadmission),

    path('admreport/', admissionreport),

path ('delete/<int:id>',delstudent),

path ('update/<int:id>',updatestudent),

]

**Open urls.py in the project folder**

**urls.py**

from django.contrib **import** admin

from django.urls **import** path,include

from admissions.views **import** homepage

urlpatterns = [

    path('admin/', admin.site.urls),

path('',homepage),

path('ad/', include('admissions.urls')),

]

**index.html (templates folder)**

{% load static %}

<html>

<head>

<title>add admission page</title>

<link rel="stylesheet" href="{% static 'stylesheets/style.css' %}"/>

</head>

<body>

<h1>School Project</h1>

<div class="module">

<h1>Admissions</h1>

<a href="./ad/newadm">Add Admissions</a>

<a href="./ad/admreport"><button type="button" name="button">Admission Report</button></a>

</div>

</body>

</html>

**style.css(admissions app->static folder)**

body

{

background-color:skyblue;

}

h1

{

color:blue;

}

**addadmissions.html(templates folder->admissions folder)**

<html>

<head>

<title>add admission page</title>

</head>

<body>

<h1>Add Admission Page</h1>

<form method="POST">

<table>

{{form.as\_table}}

</table>

<input type="submit" value="Add Student">

{% csrf\_token %}

</form>

</body>

</html>

**admissionreport.html(templates folder->admissions folder)**

<html>

<head>

<title>Admission Report Page</title>

</head>

<body>

<table border="1">

<tr>

<th>Id</th>

<th>Student Name</th>

<th>Father Name</th>

<th>Class Name</th>

<th>contact</th>

<th>Delete Action </th>

<th>Update Action </th>

</tr>

{% for s in allstudents %}

<tr>

<td>{{s.id}}</td>

<td>{{s.name}}</td>

<td>{{s.fathername}}</td>

<td>{{s.classname}}</td>

<td>{{s.contact}}</td>

<td><a href="/ad/delete/{{s.id}}">Delete</a></td>

<td><a href="/ad/update/{{s.id}}">Update</a></td>

</tr>

{% endfor %}

</table>

</body>

</html>

**updateadmissions.html(templates folder->admissions folder)**

<html>

<head>

<title>update admissions page</title>

</head>

<body>

<h1>Update Student Details:</h1>

<form method="POST">

<table>

{{form.as\_table}}

</table>

<input type="submit" value="Update Student">

{% csrf\_token %}

</form>

</body>

</html>

**To run the server application**

python manage.py runserver

* Go to browser window and type this url http://127.0.0.1:8000
* It will shows the view action and choose the view particular action

http://127.0.0.1:8000