

## **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)
```

```
    fathurname = 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>