## **Practical 3: Implement CRUD Operation in DJANGO**

**Subject: - Application Development Framework (2CSDE86)** 

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• Templates/enroll

#### **Step 1: -**

Design HTML page base.html in the template/enroll folder. That will show form and database content into browser.

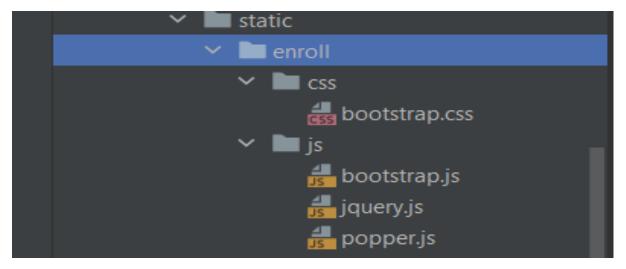
## **Step 2: -**

Designing sub HTML form page that will show new student add from as well as display list of student who already in our database.

## **Step 3: -**

Designing new sub HTML page that is updatestudent.html when we click update button that is placed into student display table, this sub HTML page will open and all the details related student will be display and whatever we want to change just update that form field with new value and click submit all the records override with existing records and data will be updated. If do not want to update click Back to Home that will redirect to homepage.

- Static/enrol
  - -Contain required Designing tools including bootstrap, jQuery.



- Migrations folder
- This folder is for creating new database for student to store that records.
- from django.db import migrations, models
- That has dependency section, operations like migrations.CreateModel that create database and structure for that is

```
    class Migration(migrations.Migration):
    initial = True
    dependencies = [
    ]
```

```
operations = [
    migrations.CreateModel(
    name='User',
    fields=[
        ('id', models.BigAutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
        ('fname', models.CharField(max_length=20)),
        ('uname', models.CharField(max_length=20)),
        ('age', models.CharField(max_length=20)),
        ('gender', models.CharField(max_length=20)),
        ('address', models.CharField(max_length=200)),
        ('email', models.EmailField(max_length=100)),
        ('mobno', models.CharField(max_length=15)),
        ('alemail', models.EmailField(max_length=15)),
        ('almobno', models.CharField(max_length=15)),
        ('fathername', models.CharField(max_length=100)),
        ('mothername', models.CharField(max_length=100)),
        ('insname', models.CharField(max_length=100)),
        ('insname', models.CharField(max_length=20)),
        ],
        ),
    }
```

#### admin.py

```
from django.contrib import admin
from .models import User
# Register your models here.
@admin.register(User)
class UserAdmin(admin.ModelAdmin):
    list_display = ('id', 'fname', 'mname', 'age', 'gender', 'address', 'email', 'mobno', 'alemail', 'almobno', 'fathername', 'mothername', 'insname')
```

### Apps.py

```
from django.apps import AppConfig

class EnrollConfig(AppConfig):
    default_auto_field = 'django.db.models.BigAutoField'
    name = 'enroll'
```

## • Forms.py

```
from django import forms
from .models import User

class StudentRegistration(forms.ModelForm):

class Meta:

model = User

fields = ['fname', 'mname', 'lname', 'age', 'gender', 'address', 'email', 'mobno', 'alemail', 'almobno',

'fathername', 'mothername', 'insname']

widgets = {

'fname': forms.TextInput(attrs={'class': 'form-control'}),

'mname': forms.TextInput(attrs={'class': 'form-control'}),

'lname': forms.TextInput(attrs={'class': 'form-control'}),

'gender': forms.TextInput(attrs={'class': 'form-control'}),

'gender': forms.TextInput(attrs={'class': 'form-control'}),

'address': forms.TextInput(attrs={'class': 'form-control'}),

'email': forms.EmailInput(attrs={'class': 'form-control'}),

'mobno': forms.TextInput(attrs={'class': 'form-control'}),
```

```
'alemail': forms.EmailInput(attrs={'class': 'form-control'}),
   'almobno': forms.TextInput(attrs={'class': 'form-control'}),
   'fathername': forms.TextInput(attrs={'class': 'form-control'}),
   'mothername': forms.TextInput(attrs={'class': 'form-control'}),
   'insname': forms.TextInput(attrs={'class': 'form-control'}),
```

#### • Models.py

```
# Create your models here.

class User(models.Model):
    fname = models.CharField(max_length=20)
    mname = models.CharField(max_length=20)
    lname = models.CharField(max_length=20)
    age = models.CharField(max_length=20)
    gender = models.CharField(max_length=20)
    address = models.CharField(max_length=20)
    email = models.EmailField(max_length=100)
    mobno = models.CharField(max_length=15)
    alemail = models.EmailField(max_length=15)
    fathername = models.CharField(max_length=100)
    mothername = models.CharField(max_length=100)
    insname = models.CharField(max_length=100)
    insname = models.CharField(max_length=20)
```

## • views.py

```
cd from django.shortcuts import render, HttpResponseRedirect
from .forms import StudentRegistration
from .models import User
def add_show(request):
  if(request.method == 'POST'):
     fm = StudentRegistration(request.POST)
     if(fm.is_valid()):
       fm.save()
       fm = StudentRegistration()
     fm = StudentRegistration()
  stud = User.objects.all()
  return render(request, 'enroll/addandshow.html', { 'form':fm, 'stu':stud})
def update_data(request, id):
  if request.method == 'POST':
     fm = StudentRegistration(request.POST, instance=pi)
    if fm.is valid():
```

```
fm.save()

else:
    pi = User.objects.get(pk=id)
    fm = StudentRegistration(instance=pi)

return render(request, 'enroll/updatestudent.html', {'form':fm})

# This function will delete

def delete_data(request,id):
    if request.method == 'POST':
        pi = User.objects.get(pk=id)
        pi.delete()
        return HttpResponseRedirect('/')
```

#### settings.py

```
from pathlib import Path
BASE_DIR = Path(__file__).resolve().parent.parent
SECRET_KEY = 'django-insecure-$m@wuzy_82yp250&qrph&^5xg_!y)02k&h3zb2&u9yz-6t3b#b'
DEBUG = True
ALLOWED HOSTS = []
INSTALLED_APPS = [
```

```
MIDDLEWARE = [
ROOT_URLCONF = 'CRUD.urls'
TEMPLATES = [
WSGI_APPLICATION = 'CRUD.wsgi.application'
# Database
DATABASES = {
    'NAME': BASE_DIR / 'db.sqlite3',
AUTH_PASSWORD_VALIDATORS = [
```

```
# Internationalization
# https://docs.djangoproject.com/en/3.2/topics/i18n/

LANGUAGE_CODE = 'en-us'

TIME_ZONE = 'UTC'

USE_I18N = True

USE_L10N = True

USE_TZ = True

# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/3.2/howto/static-files/

STATIC_URL = '/static/'

# Default primary key field type
# https://docs.djangoproject.com/en/3.2/ref/settings/#default-auto-field

DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
```

• urls.py

```
from django.contrib import admin
from django.urls import path
from enroll import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path(", views.add_show, name = "addandshow"),
    path('delete/<int:id>/', views.delete_data, name="deletedata"),
    path('<int:id>/', views.update_data, name="updatedata"),

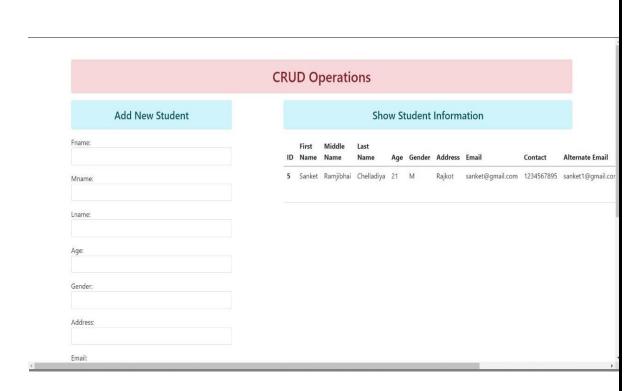
]
```

• wsgi.py

```
import os
from django.core.wsgi import get_wsgi_application
os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'CRUD.settings')
application = get_wsgi_application()
```

Output: Home page

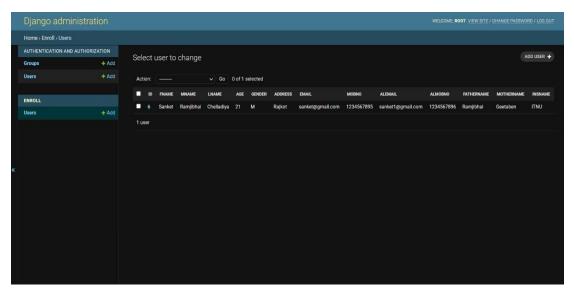
• Add new Student Record



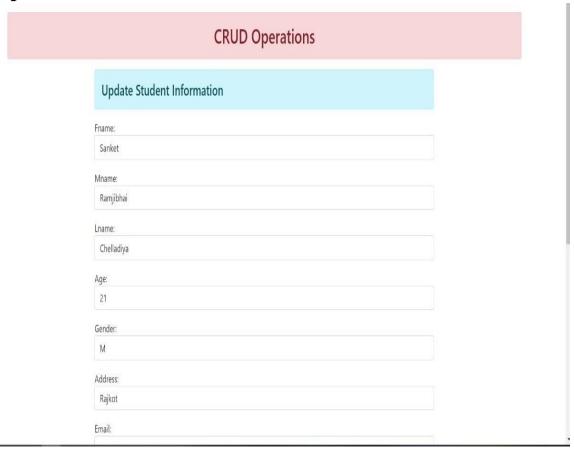
 View database record into Home page along with Edit and Delete Option

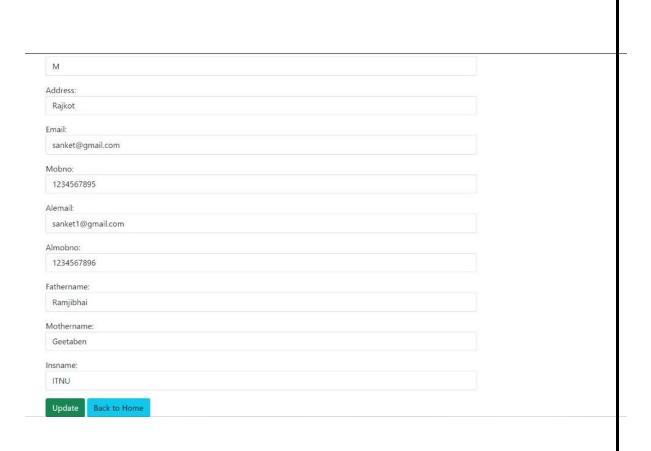


Database Records



# • Update Button Clicked





## • Delete Button Clicked



-----Thank you-----