Chapter - 1 - Django Login and Registraion Basic

# 1 – models.py

from django.db import models  
from django.contrib.auth.models import User  
  
*# Create your models here.*class Customer(models.Model):  
 user = models.OneToOneField(User, null= False, blank= False, on\_delete= models.CASCADE)  
  
 *# extra fields* phone = models.CharField(max\_length=12, blank= False)  
  
 def \_\_str\_\_(self):  
 return self.user.username

# 2 – views.py

from django.contrib.auth import authenticate, login, logout  
from django.http import HttpResponse  
from django.shortcuts import render, redirect  
from django.contrib.auth.models import User  
  
from home.models import Customer  
  
  
*# Create your views here.*def customer\_login(request):  
 *# return HttpResponse("Customer Login Works")* if(request.method == 'POST'):  
  
 username = request.POST.get('username')  
  
 password = request.POST.get('password')  
  
 user = authenticate(username=username, password=password)  
  
 if user is not None:  
 login(request, user)  
 return redirect('home')  
  
 return render(request, 'home/login.html')  
  
def customer\_registration(request):  
 *# return HttpResponse("Customer Registration Works")* if (request.method == 'POST'):  
  
 username = request.POST.get('username')  
  
 email = request.POST.get('email')  
  
 password = request.POST.get('password')  
  
 confirm\_password = request.POST.get('confirm\_password')  
  
 phone = request.POST.get('phone')  
  
 *# print("{} created successfully".format(username))* if password == confirm\_password:  
 if User.objects.filter(username=username).exists():  
  
 print("username is Already Exists")  
  
 return redirect('customer\_registration')  
 else:  
 if User.objects.filter(email=email).exists():  
  
 print("email is Already Exists")  
  
 return redirect('customer\_registration')  
 else:  
 user = User.objects.create\_user(username=username, email=email,password=password)  
  
 user.save()  
  
 customer = Customer(user= user, phone= phone)  
  
 customer.save()  
  
 *# after registration login automatically  
 # code for login of user will come here* our\_customer = authenticate(username=username, password=password)  
  
 if our\_customer is not None:  
 login(request, user)  
 return redirect('home')  
 else:  
 print("Error here...")  
 return redirect('customer\_registration')  
  
 return render(request, 'home/register.html')  
  
def customer\_logout(request):  
 *# return HttpResponse("Customer Logout Works")* logout(request)  
 return redirect('home')  
  
def home(request):  
 *# return HttpResponse("Home Page Works")* return render(request, 'home/index.html')

# 3 – urls.py

from django.urls import path  
  
from .views import customer\_registration, customer\_login, customer\_logout, home  
  
urlpatterns = [  
  
 path('customer\_login', customer\_login, name='customer\_login'),  
  
 path('customer\_registration', customer\_registration, name='customer\_registration'),  
  
 path('customer\_logout', customer\_logout, name='customer\_logout'),  
  
 path('', home, name='home')  
]

# 4 – urls.py ( Config )

from django.contrib import admin  
from django.urls import path, include  
  
urlpatterns = [  
 path('admin/', admin.site.urls),  
 path('', include('home.urls')),  
]

# 5 – settings.py

TEMPLATES = [  
 {  
 'DIRS': [ BASE\_DIR / 'templates' ],  
 },  
]

INSTALLED\_APPS = [  
 'django.contrib.admin',  
 'django.contrib.auth',  
 'django.contrib.contenttypes',  
 'django.contrib.sessions',  
 'django.contrib.messages',  
 'django.contrib.staticfiles',  
 'home'  
]

# 6 – base.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>  
 {% block title %}  
 {% endblock %}  
 </title>  
  
 <style>  
 table, th, td {  
 border: 1px solid black;  
 border-collapse: collapse;  
 padding: 10px;  
 }  
 </style>  
</head>  
<body>  
{% block content %}  
{% endblock %}  
</body>  
</html>

# 7 – login.html

{% extends "base.html" %}  
  
{% block title %}  
  
Customer Login  
  
{% endblock %}  
  
{% block content %}  
  
<form action="" method="post">  
 {% csrf\_token %}  
  
 <input type="text" name="username" id=username" placeholder="Username">  
  
 <input type="password" name="password" id="password" placeholder="Password">  
  
 <button type="submit">Login</button>  
  
</form>  
  
{% endblock %}

# 8 – registration.html

{% extends "base.html" %}  
  
{% block title %}  
  
Customer Registration  
  
{% endblock %}  
  
{% block content %}  
  
<form action="" method="post">  
 {% csrf\_token %}  
  
 <input type="text" name="username" id="username" placeholder="User Name">  
  
 <input type="email" name="email" id="email" placeholder="Email">  
  
 <input type="password" name="password" id="password" placeholder="Password">  
  
 <input type="password" name="confirm\_password" id="confirm\_password" placeholder="Confirm Password">  
  
 <input type="text" name="phone" id="phone" placeholder="Phone">  
  
 <button type="submit">Register</button>  
  
</form>  
  
{% endblock %}

# 9 – index.html

{% extends "base.html" %}  
  
{% block title %}  
  
Customer Login  
  
{% endblock %}  
  
{% block content %}  
  
<ol>  
  
 {% if user.is\_authenticated %}  
 <li>  
  
 <a href="{% url 'customer\_logout' %}">logout</a>  
  
 </li>  
 {% else %}  
  
 <li>  
  
 <a href="{% url 'customer\_login' %}">login</a>  
  
 </li>  
  
 <li>  
  
 <a href="{% url 'customer\_registration' %}">Registration</a>  
  
 </li>  
  
 {% endif %}  
</ol>  
  
  
{% if user.is\_authenticated %}  
  
<h1>Profile</h1>  
  
<table>  
  
 <tr>  
  
 <th>Username</th>  
  
 <td>{{ user.username }}</td>  
  
 </tr>  
  
 <tr>  
  
 <th>Email</th>  
  
 <td>{{ user.email }}</td>  
  
 </tr>  
  
 <tr>  
  
 <th>Phone</th>  
  
 <td>{{ user.customer.phone }}</td>  
  
 </tr>  
  
</table>  
  
{% endif %}  
  
{% endblock %}