Django Registration

YouTube Link: <https://www.youtube.com/watch?v=tUqUdu0Sjyc>

**urls.py**

from django.contrib import admin

from django.urls import path

from nopapp import views

urlpatterns = [

    path('admin/', admin.site.urls),

    path('base/', views.Website.as\_view(), name = "base"),

    path('register/', views.registerPage, name = "register"),

]

**views.py**

from django.shortcuts import render

from django.views.generic import View

from django.contrib.auth.forms import UserCreationForm

from .forms import CreateUserForm

class Website(View):

    def get(self, request):

        return render(request, template\_name="base.html")

def registerPage(request):

    form = CreateUserForm()

    error = []

    if request.method =='POST':

        print(request.POST)

        form = CreateUserForm(request.POST)

        if form.is\_valid():

            form.save()

        if form.errors:

            error = form.errors

    context = {'form':form, 'error':error}

    return render(request, 'accounts/register.html', context)

**forms.py**

from django import forms

from django.forms import ModelForm

from django.contrib.auth.forms import UserCreationForm

from django.contrib.auth.models import User

from .models import \*

class CreateUserForm(UserCreationForm):

    email = forms.EmailField(required=True)

    class Meta:

        model = User

        fields = ['username', 'email', 'password1', 'password2']

['username', 'password1', 'password2']’s fields are already given in the UserCreationForm which is inherited to class CreateUserForm. So, only emails field must be add extra.

**templates/base.html**

{% load static %}

<!doctype html>

<html lang="en">

<head>

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.1/css/all.css" integrity="sha384-gfdkjb5BdAXd+lj+gudLWI+BXq4IuLW5IT+brZEZsLFm++aCMlF1V92rMkPaX4PP" crossorigin="anonymous">

  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">

  <title>{% block title %}NOP{% endblock %}</title>

</head>

<body>

  <nav class="navbar navbar-expand-lg navbar-light mb-4" style="background-color:#8e77e0">

    <div class="container">

      <a class="navbar-brand" href="{% url 'base' %}">Needs of People</a>

      <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

        <span class="navbar-toggler-icon"></span>

      </button>

      <div class="collapse navbar-collapse" id="navbarSupportedContent">

        <ul class="navbar-nav">

          <li class="nav-item">

            <a class="nav-link" href="{% url 'base' %}">Home</a>

          </li>

        </ul>

      </div>

    </div>

  </nav>

  <div class="container">

    <div class="row justify-content-center">

      <div class="col-lg-10 col-md-12">

        <div class="card-deck">

          {% block content %}

          {% endblock %}

          {% for needs in thelist %}

            {{needs.c\_name}}

            </div><div class="card-deck">

          {% endfor %}

      </div><!-- The final deck is closed here, outside the loop -->

      </div>

    </div>

  </div>

  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js" integrity="sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49" crossorigin="anonymous"></script>

  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigin="anonymous"></script>

</body>

</html>

**templates/accounts/register.html**

{% extends 'base.html' %}

{% load static %}

{% block content %}

<div class="container-fliud px-4">

    <div class="row justify-content-center">

      <div class="col-sm-12">

        <div class="card mb-4">

          <div  class="card-body">

            <form action="{% url 'register' %}" method="post" enctype="multipart/form-data">

                {% csrf\_token %}

                {% for field in form %}

                  {{field.label}}

                  {{field}}

                {% endfor %}

                <input type="submit" value="Register">

            </form>

          </div>

        </div>

      </div>

    </div>

  </div>

{% endblock %}

Registration and Login with Styles

**urls.py**

from django.contrib import admin

from django.urls import path

from nopapp import views

urlpatterns = [

    path('admin/', admin.site.urls),

    path('base/', views.homePage, name = "base"),

    path('register/', views.registerPage, name = "register"),

    path('login/', views.loginPage, name = "login"),

    path('logout/', views.logoutUser, name = "logout"),

]

**views.py**

from django.shortcuts import render, redirect

from django.views.generic import View

from django.views.decorators.csrf import csrf\_exempt

from django.utils.decorators import method\_decorator

from .mixin import HttpResponseMixin

from django.contrib.auth.forms import UserCreationForm

from django.contrib.auth.decorators import login\_required

from django.forms import inlineformset\_factory

from django.contrib.auth import authenticate, login, logout

from nopapp.utils import is\_json

import json

from nopapp import database\_handler

from .forms import CreateUserForm

from django.contrib import messages

@login\_required(login\_url='login')

def homePage(request):

    return render(request, template\_name="base.html")

def registerPage(request):

    if request.user.is\_authenticated:

        return redirect('base')

    else:

        form = CreateUserForm()

        if request.method =='POST':

            form = CreateUserForm(request.POST)

            if form.is\_valid():

                form.save()

                user = form.cleaned\_data.get('username')

                messages.success(request, 'Account was created for ' + user)

                return redirect('login')

        context = {'form':form}

        return render(request, 'accounts/register.html', context)

def loginPage(request):

    if request.user.is\_authenticated:

        return redirect('base')

    else:

        context = {}

        if request.method == "POST":

            username = request.POST.get('username')

            password = request.POST.get('password')

            user = authenticate(request, username = username, password = password)

            if user is not None:

                login(request, user)

                return redirect('base')

            else:

                messages.info(request, "Username or Password is Incorrect.")

                return render(request, 'accounts/login.html', context)

        return render(request, 'accounts/login.html', context)

def logoutUser(request):

    logout(request)

    return redirect('login')

**forms.py**

from django import forms

from django.forms import ModelForm

from django.contrib.auth.forms import UserCreationForm

from django.contrib.auth.models import User

from .models import \*

class CreateUserForm(UserCreationForm):

    email = forms.EmailField(required=True)

    class Meta:

        model = User

        fields = ['username', 'email', 'password1', 'password2']

**templates/accounts/register.html**

<!DOCTYPE html>

<html>

<head>

  <title>Login</title>

  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">

  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.1/css/all.css" integrity="sha384-gfdkjb5BdAXd+lj+gudLWI+BXq4IuLW5IT+brZEZsLFm++aCMlF1V92rMkPaX4PP" crossorigin="anonymous">

  <style>

    body,

    html {

      margin: 0;

      padding: 0;

      height: 100%;

      background: #7abecc !important;

    }

    .user\_card {

      width: 350px;

      margin-top: auto;

      margin-bottom: auto;

      background: #74cfbf;

      position: relative;

      display: flex;

      justify-content: center;

      flex-direction: column;

      padding: 10px;

      box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);

      -webkit-box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);

      -moz-box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);

      border-radius: 5px;

    }

    .form\_container {

      margin-top: 20px;

    }

    #form-title{

      color: #fff;

    }

    .login\_btn {

      width: 100%;

      background: #33ccff !important;

      color: white !important;

    }

    .login\_btn:focus {

      box-shadow: none !important;

      outline: 0px !important;

    }

    .login\_container {

      padding: 0 2rem;

    }

    .input-group-text {

      background: #f7ba5b !important;

      color: white !important;

      border: 0 !important;

      border-radius: 0.25rem 0 0 0.25rem !important;

    }

    .input\_user,

    .input\_pass:focus {

      box-shadow: none !important;

      outline: 0px !important;

    }

  </style>

</head>

<body>

  <div class="container h-100">

    <div class="d-flex justify-content-center h-100">

      <div class="user\_card">

        <div class="d-flex justify-content-center">

          <h3 id="form-title">REGISTER ACCOUNT</h3>

        </div>

        <div class="d-flex justify-content-center form\_container">

          <form method="POST" action="">

            {% csrf\_token %}

            <div class="input-group mb-3">

              <div class="input-group-append">

                <span class="input-group-text"><i class="fas fa-user"></i></span>

              </div>

              {{form.username}}

            </div>

            <div class="input-group mb-2">

              <div class="input-group-append">

                <span class="input-group-text"><i class="fas fa-envelope-square"></i></span>

              </div>

              {{form.email}}

            </div>

            <div class="input-group mb-2">

              <div class="input-group-append">

                <span class="input-group-text"><i class="fas fa-key"></i></span>

              </div>

              {{form.password1}}

            </div>

            <div class="input-group mb-2">

              <div class="input-group-append">

                <span class="input-group-text"><i class="fas fa-key"></i></span>

              </div>

              {{form.password2}}

            </div>

              <div class="d-flex justify-content-center mt-3 login\_container">

              <input class="btn login\_btn" type="submit" value="Register Account">

              </div>

          </form>

        </div>

        {{form.errors}}

        <div class="mt-4">

          <div class="d-flex justify-content-center links">

            Already have an account? <a href="{% url 'login' %}" class="ml-2">Login</a>

          </div>

        </div>

      </div>

    </div>

  </div>

  <script>

            /\* Because i didnt set placeholder values in forms.py they will be set here using vanilla Javascript

    //We start indexing at one because CSRF\_token is considered and input field

     \*/

    //Query All input fields

    var form\_fields = document.getElementsByTagName('input')

    form\_fields[1].placeholder='Username..';

    form\_fields[2].placeholder='Email..';

    form\_fields[3].placeholder='Enter password...';

    form\_fields[4].placeholder='Re-enter Password...';

    for (var field in form\_fields){

      form\_fields[field].className += ' form-control'

    }

  </script>

</body>

</html>

**templates/accounts/login.html**

<!DOCTYPE html>

<html>

<head>

    <title>Login</title>

    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">

    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.1/css/all.css" integrity="sha384-gfdkjb5BdAXd+lj+gudLWI+BXq4IuLW5IT+brZEZsLFm++aCMlF1V92rMkPaX4PP" crossorigin="anonymous">

    <style>

        body,

        html {

            margin: 0;

            padding: 0;

            height: 100%;

            background: #7abecc !important;

        }

        .user\_card {

            width: 350px;

            margin-top: auto;

            margin-bottom: auto;

            background: #74cfbf;

            position: relative;

            display: flex;

            justify-content: center;

            flex-direction: column;

            padding: 10px;

            box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);

            -webkit-box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);

            -moz-box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);

            border-radius: 5px;

        }

        .form\_container {

            margin-top: 20px;

        }

        #form-title{

            color: #fff;

        }

        .login\_btn {

            width: 100%;

            background: #33ccff !important;

            color: white !important;

        }

        .login\_btn:focus {

            box-shadow: none !important;

            outline: 0px !important;

        }

        .login\_container {

            padding: 0 2rem;

        }

        .input-group-text {

            background: #f7ba5b !important;

            color: white !important;

            border: 0 !important;

            border-radius: 0.25rem 0 0 0.25rem !important;

        }

        .input\_user,

        .input\_pass:focus {

            box-shadow: none !important;

            outline: 0px !important;

        }

        #messages{

            background-color: grey;

            color: #fff;

            padding: 10px;

            margin-top: 10px;

        }

    </style>

</head>

<body>

    <div class="container h-100">

        <div class="d-flex justify-content-center h-100">

            <div class="user\_card">

                <div class="d-flex justify-content-center">

                    <h3 id="form-title">LOGIN</h3>

                </div>

                <div class="d-flex justify-content-center form\_container">

                    <form method="POST" action="">

                        {% csrf\_token %}

                        <div class="input-group mb-3">

                            <div class="input-group-append">

                                <span class="input-group-text"><i class="fas fa-user"></i></span>

                            </div>

                            <input type="text" name="username" placeholder="Username..." class="form-control">

                        </div>

                        <div class="input-group mb-2">

                            <div class="input-group-append">

                                <span class="input-group-text"><i class="fas fa-key"></i></span>

                            </div>

                                <input type="password" name="password" placeholder="Password..." class="form-control" >

                        </div>

                            <div class="d-flex justify-content-center mt-3 login\_container">

                                 <input class="btn login\_btn" type="submit" value="Login">

                               </div>

                    </form>

                </div>

                {% for message in messages %}

                    <p id = 'messages'>{{ message }}</p>

                {% endfor %}

                <div class="mt-4">

                    <div class="d-flex justify-content-center links">

                        Don't have an account? <a href="{% url 'register' %}" class="ml-2">Sign Up</a>

                    </div>

                </div>

            </div>

        </div>

    </div>

</body>

</html>

**templates/base.html**

{% load static %}

<!doctype html>

<html lang="en">

<head>

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.1/css/all.css" integrity="sha384-gfdkjb5BdAXd+lj+gudLWI+BXq4IuLW5IT+brZEZsLFm++aCMlF1V92rMkPaX4PP" crossorigin="anonymous">

  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">

  <title>{% block title %}NOP{% endblock %}</title>

</head>

<body>

  <nav class="navbar navbar-expand-lg navbar-light mb-4" style="background-color:#8e77e0">

    <div class="container">

      <a class="navbar-brand" href="{% url 'base' %}">Needs of People</a>

      <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

        <span class="navbar-toggler-icon"></span>

      </button>

      <div class="collapse navbar-collapse" id="navbarSupportedContent">

        <ul class="navbar-nav">

          <li class="nav-item">

            <a class="nav-link" href="{% url 'base' %}">Home</a>

          </li>

        </ul>

      </div>

    </div>

  </nav>

  <div class="container">

    <div class="row justify-content-center">

      <div class="col-lg-10 col-md-12">

        <div class="card-deck">

          {% block content %}

          {% endblock %}

          {% for needs in thelist %}

            {{needs.c\_name}}

            </div><div class="card-deck">

          {% endfor %}

      </div><!-- The final deck is closed here, outside the loop -->

      </div>

    </div>

  </div>

  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js" integrity="sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49" crossorigin="anonymous"></script>

  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigin="anonymous"></script>

</body>

</html>