

S1: create project, templates, app, templates, html

```
C:\demo\django\feb_2023\L11>django-admin startproject p1_auproject
C:\demo\django\feb_2023\L11>cd p1_auproject
C:\demo\django\feb_2023\L11\p1_auproject>mkdir templates
C:\demo\django\feb_2023\L11\p1_auproject>cd templates
C:\demo\django\feb_2023\L11\p1_auproject\templates>notepad base.html
C:\demo\django\feb_2023\L11\p1_auproject\templates>cd..
C:\demo\django\feb_2023\L11\p1_auproject>python manage.py startapp auapp
C:\demo\django\feb_2023\L11\p1_auproject>cd auapp
C:\demo\django\feb_2023\L11\p1_auproject\auapp>mkdir templates
C:\demo\django\feb_2023\L11\p1_auproject\auapp>cd templates
C:\demo\django\feb_2023\L11\p1_auproject\auapp\templates>notepad uhome.html
C:\demo\django\feb_2023\L11\p1_auproject\auapp\templates>notepad usignup.html
C:\demo\django\feb_2023\L11\p1_auproject\auapp\templates>notepad uwelcome.html
C:\demo\django\feb_2023\L11\p1_auproject\auapp\templates>cd..
C:\demo\django\feb_2023\L11\p1_auproject\auapp>cd..
```

S2: settings.py

```
:
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'auapp',
]
:
TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [ BASE_DIR / "templates" ],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    },
]
:
```

S3: urls.py

```
from django.contrib import admin
from django.urls import path
from auapp.views import uhome, usignup, uwelcome, ulogout
```

```
urlpatterns = [
    path('admin/', admin.site.urls),
    path("", uhome, name="uhome"),
    path("usignup", usignup, name="usignup"),
    path("uwelcome", uwelcome, name="uwelcome"),
    path("ulogout", ulogout, name="ulogout"),
]
```

S4: base.html

```
<html>
  <head>
    <title> Authentication App by KS </title>
    <style>
      * { font-size:40px; }
      .nav { background-color: black; }
      .nav a { color:white; text-decoration:None; margin:40px; }
    </style>
  </head>
  <body>
    <center>
      <div class="nav">
        {% if user.is_authenticated %}
          <a href="{% url 'ulogout' %}" > Logout </a>
        {% else %}
          <a href="{% url 'uhome' %}" > Login </a>
          <a href="{% url 'usignup' %}" > Signup </a>
        {% endif %}
      </div>
      {% block content %}
      {% endblock %}
    </center>
  </body>
</html>
```


S5: views.py

```
from django.shortcuts import render, redirect
from django.contrib.auth.models import User
from django.contrib.auth import login, logout, authenticate

def uhome(request):
    if request.user.is_authenticated:
        return redirect("uwelcome")
    else:
        if request.method == "POST":
            un = request.POST.get("un")
            pw = request.POST.get("pw")
            usr = authenticate(username=un, password=pw)
            if usr is None:
                return render(request, "uhome.html", {"msg": "invalid username / password"})
            else:
                login(request, usr)
                return redirect("uwelcome")
        else:
            return render(request, "uhome.html")

def usignup(request):
    if request.user.is_authenticated:
        return redirect("uwelcome")
    else:
        if request.method == "POST":
            un = request.POST.get("un")
            pw1 = request.POST.get("pw1")
            pw2 = request.POST.get("pw2")
            if pw1 == pw2:
                try:
                    usr = User.objects.get(username=un)
                    return render(request, "usignup.html", {"msg": "user already registered"})
                except User.DoesNotExist:
                    usr = User.objects.create_user(username=un, password=pw1)
                    usr.save()
                    return redirect("uhome")
            else:
                return render(request, "usignup.html", {"msg": "passwords did not match"})
        else:
            return render(request, "usignup.html")
```

```
def uwelcome(request):
    if request.user.is_authenticated:
        return render(request, "uwelcome.html")
    else:
        return redirect("uhome")
```

```
def ulogout(request):
    logout(request)
    return redirect("uhome")
```

S6: all html files

uhome.html

```
{% extends 'base.html' %}
{% block content %}
    <h1> Login Page </h1>
    <form method="POST">
        {% csrf_token %}
        <input type="text" name="un" placeholder="enter username " required>
        <br><br>
        <input type="password" name="pw" placeholder="enter password " required>
        <br><br>
        <input type="submit" value="Login" />
    </form>
    {{ msg }}
{% endblock %}
```


usignup.html

```
{% extends 'base.html' %}
{% block content %}
    <h1> Signup Page </h1>
    <form method="POST">
        {% csrf_token %}
        <input type="text" name="un" placeholder="enter username " required>
        <br><br>
        <input type="password" name="pw1" placeholder="enter password " required>
        <br><br>
        <input type="password" name="pw2" placeholder="enter password " required>
        <br><br>
        <input type="submit" value="Register" />
    </form>
    {{ msg }}
{% endblock %}
```

uwelcome.html

```
{% extends 'base.html' %}
{% block content %}
    <h1> Welcome {{ user.username }} </h1>
{% endblock %}
```

s7: mi, csu and rs

```
C:\demo\django\feb_2023\L11\p1_auproject>python manage.py migrate
C:\demo\django\feb_2023\L11\p1_auproject>python manage.py createsuperuser
C:\demo\django\feb_2023\L11\p1_auproject>python manage.py runserver
```