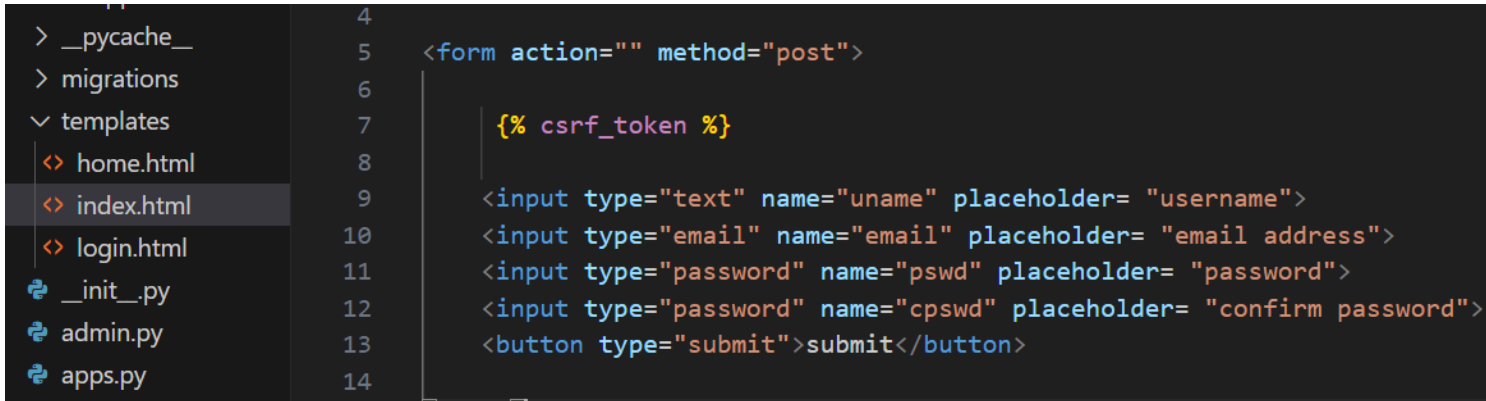


USER AUTHENTICATION

Add a form for register:

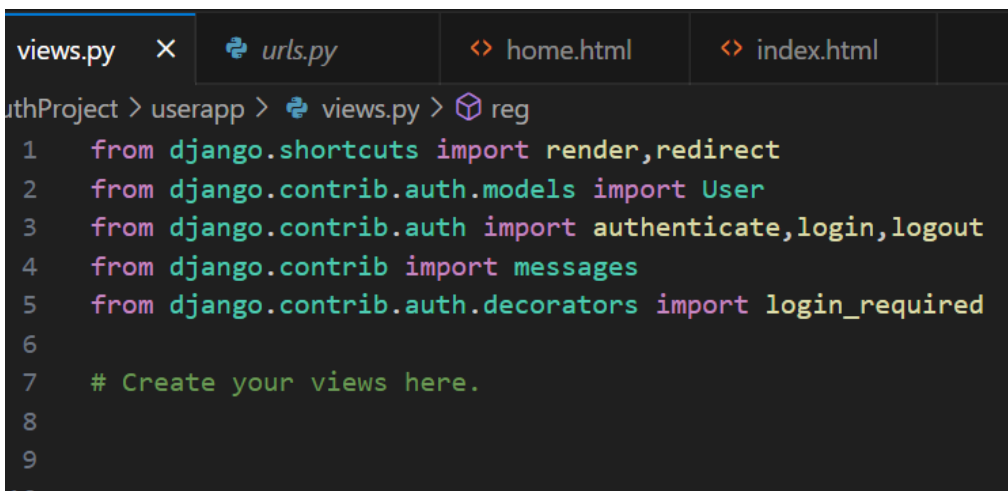
Reg.html page:



```
4
> __pycache__
5 <form action="" method="post">
> migrations
6
7     {% csrf_token %}
8
9     <input type="text" name="uname" placeholder= "username">
10    <input type="email" name="email" placeholder= "email address">
11    <input type="password" name="pswd" placeholder= "password">
12    <input type="password" name="cpswd" placeholder= "confirm password">
13    <button type="submit">submit</button>
14
```

Add name attribute to each field – username, email, password, confirm password

Views.py file in app:



```
views.py × urls.py home.html index.html
authProject > userapp > views.py > reg
1 from django.shortcuts import render, redirect
2 from django.contrib.auth.models import User
3 from django.contrib.auth import authenticate, login, logout
4 from django.contrib import messages
5 from django.contrib.auth.decorators import login_required
6
7 # Create your views here.
8
9
10
```

- Import User from auth models
 - Import Authenticate, login and logout from auth
 - Import login_required from decorators
-
- Create reg function and add input field into new variable then save it to User model by creating new user.
 - Also check user is existing with the same username in database.
 - Existence check by filter method and create new user by create_user method.

```

def reg(request):
    if request.user.is_authenticated:
        return render(request, 'home.html')
    else:
        if request.method == "POST":
            username = request.POST.get('uname')
            email = request.POST.get('email')
            password = request.POST.get('pswd')
            cpass = request.POST.get('cpswd')
            if password == cpass:
                if User.objects.filter(username=username, email=email).exists():
                    messages.info(request, 'username already taken')
                    print('already have')
                else:
                    new_user = User.objects.create_user(username, email, password)
                    new_user.save()
                    return redirect(loginpage)
            else:
                print('wrong password')
        return render(request, 'index.html')

```

If it successfully registered then goes to login page:

```

31
32 def loginpage(request):
33     if request.user.is_authenticated:
34         return render(request, 'home.html')
35     else:
36         if request.method == "POST":
37             username = request.POST.get('username')
38             password = request.POST.get('password')
39             user = authenticate(request, username=username, password=password)
40             if user is not None:
41                 login(request, user)
42                 return redirect(homepage)
43             else:
44                 messages.info(request, 'user not exist')
45                 print('user not exist')
46                 return redirect(loginpage)
47         return render(request, 'login.html')
48

```

Also add login function path into settings of project:

```

118 # https://docs.djangoproject.com/en/1.11/ref/urls/
119
120 STATIC_URL = 'static/'
121 LOGIN_URL = 'loginpage'
122

```

- If there a user already logged in then will not show the login page but home page.
- If not, user can login with username and password
- User will be authenticate if both are correct and user is not none (not operator for opposite result).
- Otherwise again redirect to login page

If user successfully logged in then user can enter to home page and can see logout button. Otherwise, cannot.

Home page function in views.py:

```
8
9  @login_required
10 def homepage(request):
11     if request.user.is_authenticated:
12         return render(request, 'home.html')
13     else:
14         return redirect(loginpage)
15
```

Logout function in views.py

```
@login_required
def userlogout(request):

    logout(request)
    return redirect(loginpage)
```

Login.html page:

- Add a login form with name attribute same as registration form.
- Add csrf token and method="post"

```

3  {% load static %}
4
5  <h1>login page</h1>
6
7  <form action="" method="post">
8
9      {% csrf_token %}
10
11      <input type="text" name="username" placeholder="username">
12      <input type="password" name="password" placeholder="password">
13
14      <button type="submit">login</button>
15
16  </form>

```

Urls.py in app folder: for all view functions

```

1  from . import views
2  from django.urls import path
3
4  urlpatterns = [
5      path('', views.reg, name='reg'),
6      path('login', views.loginpage, name='loginpage'),
7      path('home', views.homepage, name="homepage"),
8      path('logout', views.userlogout, name="userlogout"),
9  ]
10

```

Home.html page

```

authProject > userapp > templates > <> home.html
1  {% load static %}
2  <h1>welcome home</h1>
3
4  {% if request.user.is_authenticated %}
5  <a href="{% url 'userlogout' %}">logout here</a>
6  <h1>welcome {{request.user.username}}</h1>
7  {% endif %}
8

```