1. Create project - RegistraionLogin and Create app - myapp in it

```
\my notes\Django>django-admin startproject RegistraionLogin
\my notes\Django>cd RegistraionLogin
\my notes\Django\RegistraionLogin>python manage.py startapp myapp
\my notes\Django\RegistraionLogin>
```

2. Register app in settings.py

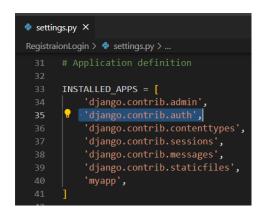
3. Create RegistraionLogin database in workbench

4. In settings.py change database details into mysql

- 5. makemirations
- 6. migrate
- 7. check tables in workbench

Where auth is name of application and user is name of model present inside auth application

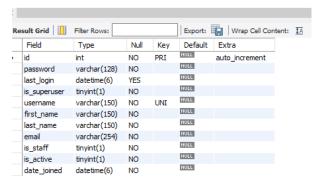
```
· | 🏂 | 🥩 🔍 🗻 🖫
🚞 🔚 | 🥖 🟂 👰 🕛 | 🔂 | 📀 🔕 👩 | Limit to 400 rows
 1 • create database registrationlogin;
 2 • use registrationlogin;
 3 • show tables:
Result Grid I Filter Rows:
                                Export: Wrap Cell Content: 🖽
  Tables_in_registrationlogin
  auth group
  auth_group_permissions
 auth_permission
auth_user
  auth_user_groups
  auth user user permissions
  django_admin_log
  django_content_type
  django_migrations
  django_session
```



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8. let's describe auth_user table to get its stricture

4 • desc auth user;



9. create templates folder, register it in settings.py

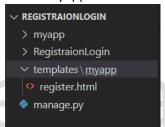
```
resttings.py X

RegistraionLogin > settings.py > ...

restricted by settings.py > ...

restric
```

10. create myapp folder in templates and create register.html file



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11. code for register.html

12. create view to show registration form

13. create url pattern for above view at application level (create myapp_urls.py in myapp folder)

```
myapp_urls.py X
myapp >  myapp_urls.py > ...
from django.urls import path
from myapp import views

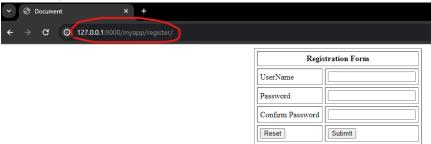
urlpatterns = [
path('register/', views.register_user),
]

7
```

14. create url for myapp -> myapp_url.py in urls.py (at project level)

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- 15. runserver
- 16. check output



17. create superuser

```
C:\TEJAS KASARE (Very imp folder)\my notes\Django\RegistraionLogin>python manage.py createsuperuser
Username (leave blank to use 'admin'): tejas
Email address: tejas@gmail.com
Password:
Password (again):
Superuser created successfully.
```

18. check superuser details in auth_user table

```
5 • select * from auth user;
```

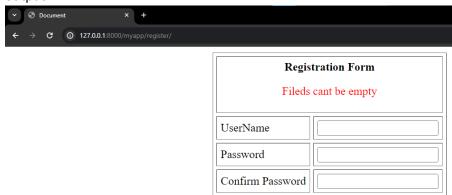


19. collect user data from registration form and insert into table – auth_user (update view logic)

```
views.py ×
myapp > 🕏 views.py > ...
      from django.contrib.auth.models import User
      def register user(request):
         data={}
          if request.method=="POST":
             uname=request.POST['username']
             upass=request.POST['password']
             uconf_pass=request.POST['password2']
             if (uname=='' or upass =='' or uconf pass ==''):
                data['error_msg']='Fileds cant be empty'
                return render(request, 'myapp/register.html', context=data)
             elif(upass!=uconf pass):
                data['error msg']='Password and confirm password does not matched'
                return render(request, 'myapp/register.html',context=data)
             elif(User.objects.filter(username=uname).exists()):
                data['error msg']=uname + ' alredy exist'
                return render(request, 'myapp/register.html', context=data)
                user=User.objects.create(username=uname)
                #here username and password aee column names present inside auth user table
                user.set_password(upass) #encrypting passowrd
                user.save() #saving data into table
                return HttpResponse("Registraion done")
         return render(request, 'myapp/register.html'
```

20. update register.html to show error

21. output



Reset

Submit

a. create login.html in templates > myapp folder

```
o login.html X
templates > myapp > ↔ login.html
     <form method="POST">
         {% csrf_token %}
           Login Form
              {% if error_msg %}
             {{error_msg}}
 19
           </thead>
       <label for="username">UserName</label>
           <input type="text" id="username" name="username" value="">
            <label for="password">Password</label>
           <input type="password" id="password" name="password" value="">
         <input type="reset">
           <input type="submit">
        </form>
      </body>
```

b. create view to view login form

```
def login_user(request):
return render(request,'myapp/login.html')

def login_user(request):
return render(request,'myapp/login.html')
```

c. create url for above view (in application level – myapp_urls.py)

```
myapp_urls.py X

myapp >  myapp_urls.py > ...

from django.urls import path
from myapp import views

urlpatterns = [
path('register/', views.register_user),
path('login/', views.login_user),

path('login/', views.login_user),

path('login/', views.login_user),

path('login/', views.login_user),
```

d. logic to perform login operation

```
def login_user(request):
        data={}
        if request.method=="POST":
           uname=request.POST['username']
           upass=request.POST['password']
           #implementing validation
           if (uname=='' or upass ==''):
              data['error_msg']='Fileds cant be empty'
              return render(request, 'myapp/login.html', context=data)
           elif(not User.objects.filter(username=uname).exists()):
              data['error_msg']=uname + ' user is not registered'
              return render(request, 'myapp/login.html', context=data)
           else:
46
              #from django.contrib.auth import authenticate
              user=authenticate(username=uname,password=upass)
              print(user)
              if user is not None:
                 return redirect('/myapp/home')
              else:
                 data['error_msg']='Wrong Password'
                 return render(request, 'myapp/login.html', context=data)
        return render(request, 'myapp/login.html')
```

There are 2 important line

- 1 authenticate() function accepts username and password and return User object if user exist with given credentials otherwise None(line 47 above)
- 2- on successful login, we are redirecting to home page. So we need to create home.html file, view to display home.html and finally url for view.
- e. Creating home.html in templates > myapp folder

f. Creating view to display home.html

```
def home(request):
return render(request,'myapp/home.html')
```

g. url for above view

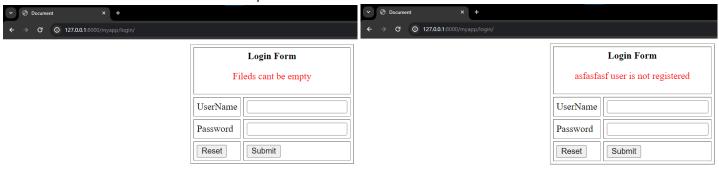
```
myapp_urls.py ×
myapp > @ myapp_urls.py > ...

from django.urls import path
from myapp import views

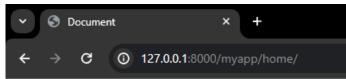
urlpatterns = [
path('register/', views.register_user),
path('login/', views.login_user),
path('home/', views.home),

path('home/', views.home),
```

h. rnserver and check for output

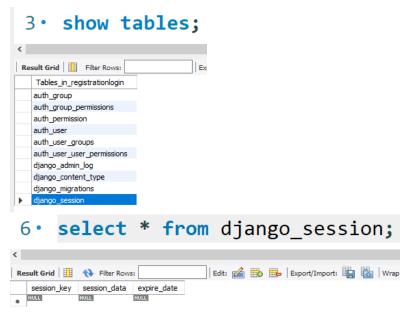






Welcome to home

- 23. Session
 - a. Session is piece of code that store on server side.
 - b. There is built function which is responsible to start sessin login() function
 - i. This login function is present inside django.contrib.auth package
 - 1. From django.contrib.auth import login
 - Use : login(request, user_object)
 - 3. This login function return an id of logged in (authenticated) user (step 25)
 - ii. On successful login, this login function stores id of authenticated user inside django_session table



1.

2.

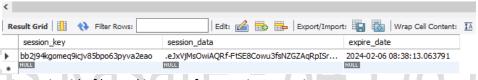
- c. Similarly there is logout function which is responsible for stppping the session
 - i. This logout function is present inside django.contrib.auth package
- 24. Session: Starting session using login() and checking data inside djanog session table
 - a. Import

```
#importing autheticate function to login user
from django.contrib.auth import authenticate,login,logout
```

b. Use login function in user_login() function

- c. Do login from our login page (http://127.0.0.1:8000/myapp/login/)
- d. Check data in djanog_session table

```
6 select * from django session;
```

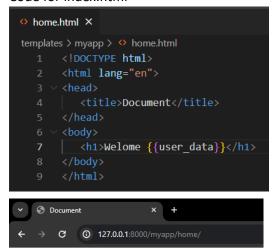


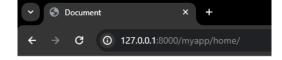
- 25. Session: Accessing id of logged in user after starting a session
 - a. Here we are going to see 2 important things:
 - i. How to get id of logged in user and (request.user.id)
 - ii. How to check user is authenticated (request.user.is_authenticated)
 - b. Go to home() function and add following code

```
def home(request):
    data = {}
    #checking whether user is authenticated user
    user_authenticated=request.user.is_authenticated
    print(user_authenticated)
    #if authenticated, then show home else go to login page
    if(user_authenticated):
        user_id = request.user.id
        user=User.objects.get(id=user_id)
        # print(user_id)
        data['user_data'] = user.username
        return render(request,'myapp/home.html',context=data)
    else:
        # control came here because user is not logged in
        # so you can redirect to login page
        data['user_data'] = "User"
        return render(request,'myapp/home.html',context=data)
```

Getting user data in html

c. Code for index.html





Welcome User

Welcome tejas

Before login

After Login

- 26. Providing logout function; ity
 - a. Create user_logout() in view

b. Create url for same in myapp_urls.py

```
myapp_urls.py X
myapp > myapp_urls.py > ...

from django.urls import path
from myapp import views

urlpatterns = [
path('register/', views.register_user),
path('login/', views.login_user),
path('home/', views.home),
path('logout/', views.user_logout),

path('logout/', views.user_logout),

path('logout/', views.user_logout),

path('logout/', views.user_logout),
```

27. Providing Navbar in home.html with login, logout and register functionality (links)

```
♦ home.html ×
templates > myapp > ↔ home.html
       <!DOCTYPE html>
       <html lang="en">
          <title>Document</title>
             header {
                width: 100%;
                height: 50px;
                background-color: orange;
                position: fixed;
                display: flex;
                align-items: center;
                justify-content: space-around;
                header * {
                display: inline;
                header li {
                margin: 20px;
                header li a {
                color: blue;
                text-decoration: none;
```

28. Proving login option on registration page



•	3	Docume	nt			×	+			
+		œ	0	127.0.0.	.1 :8000/	myapį				
									Regis	stration Form
									UserName	
									Password	
									Confirm Password	
									Reset	Submit
									Alredy User	? Click <u>here</u> to Login

29. Proving register option on login page



·	③ D₁	ocumen	t	×	+			
+	÷	G	0	127.0.0.1 :8000/mya	app/login/			

Login Form					
UserName					
Password					
Reset	Submit				
New User? Click <u>here</u> to Register					

30. Final output

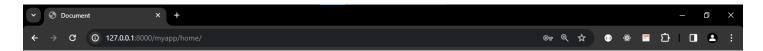
a. Home page – Before Login



Welome User



b. Home page – After Login



Welome tejas



31. DONE!!!!!!!!!!! – Registration, Login, Session 8459859415