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
```

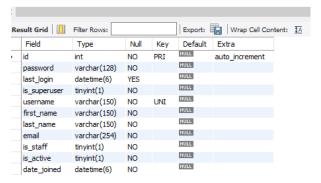
```
registraionLogin > ** settings.py > ...

31  # Application definition
32
33  INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'myapp',
41 ]
```

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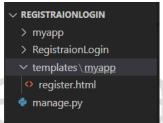
8. let's describe auth_user table to get its stricture

4 • desc auth user;



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

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 > ...

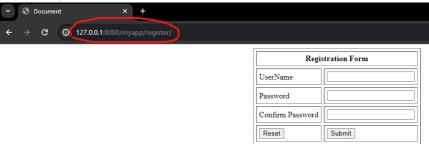
1   from django.urls import path
2   from myapp import views
3

4   urlpatterns = [
5      path('register/', views.register_user),
6   ]
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;
```

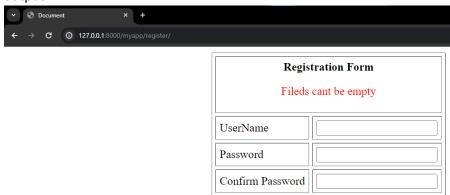


19. collect user data from registration form and insert into table – auth_user (update view logic)

```
views.py X
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 ×
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),

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

myapp_urls.py ×
myapp_urls.py ×
myapp_urls.py > ...
myapp_urls.py ×
myapp_urls.py > ...
myapp_ur
```

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

```
55
56    def home(request):
57        return render(request, 'myapp/home.html')
58
```

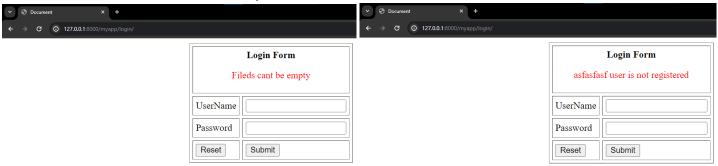
g. url for above view

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

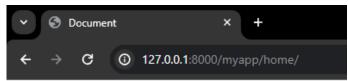
urlpatterns = [
    path('register/', views.register_user),
    path('login/', views.login_user),
    path('home/', views.home),

    ]
```

h. rnserver and check for output







Welcome to home

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