Web Project 2 Example Solution:

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Code Structure:

models.py

**post**

from django.db import models

from django.contrib.auth import get\_user\_model

User = get\_user\_model()

# Create your models here.

class Author(models.Model):

user = models.OneToOneField(User, on\_delete=models.CASCADE)

profile\_picture = models.ImageField()

def \_\_str\_\_(self):

return self.user.username

class Category(models.Model):

title = models.CharField(max\_length=20)

subtitle = models.CharField(max\_length=20)

slug = models.SlugField()

thumbnail = models.ImageField()

def \_\_str\_\_(self):

return self.title

class Post(models.Model):

title = models.CharField(max\_length=100)

slug = models.SlugField()

overview = models.TextField()

timestamp = models.DateTimeField(auto\_now\_add=True)

content = models.TextField()

author = models.ForeignKey(Author, on\_delete=models.CASCADE)

thumbnail = models.ImageField()

categories = models.ManyToManyField(Category)

featured = models.BooleanField()

def \_\_str\_\_(self):

return self.title

**authencation**

from django.db import models

from django.contrib.amodels import AbstractUseruth.

Views.py

**Authencation**

from django.shortcuts import render, redirect

from django.contrib import messages

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

from django.contrib.auth.models import User

from django.contrib.auth.hashers import make\_password,check\_password

# Create your views here.

def signupop\_view(request):

return render(request,'signup\_option.html')

def signup\_view(request):

if not request.user.is\_authenticated:

if request.method == "POST":

firstname = request.POST['fname']

mobile = request.POST['mob']

username = request.POST['uname']

email = request.POST['email']

pass1 = request.POST['password']

pass2 = request.POST['cpassword']

if pass1 != pass2:

messages.error(request, "Password didn't match!")

else:

myuser = User.objects.create\_user(first\_name=firstname, last\_name=mobile, username=username,

email=email, password=pass1)

myuser.is\_active = True

myuser.save()

return redirect('/signuppop')

return render(request, "signup.html")

else:

return redirect('/')

def login\_view(request):

if not request.user.is\_authenticated:

if request.method == 'POST':

uname = request.POST['usname']

pass1 = request.POST['pswww']

user = authenticate(username=uname, password=pass1)

if user is not None:

login(request, user)

return redirect('/loginpop')

# return redirect('/homepage')

else:

messages.success(request,'User not Found!!')

return redirect('/loginfailed')

return render(request, "login.html")

else:

return redirect('/')

def logout\_view(request):

logout(request)

return redirect('/')

def loginpop\_view(request):

return render(request, 'loginpop.html')

def signpop\_view(request):

return render(request, 'signuppop.html')

def loginfailed\_view(request):

return render(request, 'loginfailed.html')

def signout\_view(request):

if request.user.is\_authenticated:

print(request.user)

busout = User.objects.get(username=request.user)

print("--------------------------busout")

if busout is not None:

busout.delete()

return render(request, "delete.html")

else:

return redirect('/extra')

else:

return redirect('/')

def recoverPass\_view(request):

if not request.user.is\_authenticated:

if request.method == 'POST':

npass = request.POST['npas']

cpass = request.POST['cpas']

uname = request.POST['pasfuname']

use = User.objects.get(username=uname)

if npass == cpass:

return render(request, "forgot.html")

else:

return redirect('/')

use.password = make\_password(npass)

use.save()

return redirect('/passwordchangepop')

else:

return redirect('/passwordchangeerror')

return render(request, 'passrecovery.html')

else:

return redirect('/')

def forgot\_view(request):

if not request.user.is\_authenticated:

if request.method == 'POST':

fname = request.POST['pasfname']

uname = request.POST['pasfuname']

mem = User.objects.get(first\_name=fname,username=uname )

print('--------------------------------------------',mem)

if mem is not None:

return redirect("/password\_recovery")

else:

return redirect("/forgot\_password")

**posts**

from django.shortcuts import render

from .models import Post,Category,Author

# Create your views here.

def homepage(request):

categories = Category.objects.all()[0:3]

featured = Post.objects.filter(featured=True)

latest = Post.objects.order\_by('-timestamp')[0:3]

context= {

'object\_list': featured,

'latest': latest,

'categories':categories,

}

return render(request, 'homepage.html', context)

def homepage(request):

categories = Category.objects.all()[0:3]

featured = Post.objects.filter(featured=True)

latest = Post.objects.order\_by('-timestamp')[0:3]

context= {

'object\_list': featured,

'latest': latest,

'categories':categories,

}

return render(request, 'homepage.html', context)

def category\_post\_list (request, slug):

category = Category.objects.get(slug = slug)

posts = Post.objects.filter(categories\_\_in=[category])

context = {

'posts': posts,

}

return render(request, 'post\_list.html', context)

def allposts(request):

posts = Post.objects.order\_by('-timestamp')

context = {

'posts': posts,

}

return render(request, 'all\_posts.html', context)