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Semester :- 7

Subject: ADF Subject Code: 2CSDE86

#### **Practical 4**

**Aim:** Apply concept of Class Based Views and demonstrate the CRUD operations for registration page designed. Also, design the app/module for posts.

Design a view, templates and filters for different modules. Ensure that your application has following features:

- 1. Login and registration page
- 2. The dashboard which displays the latest post
- 3. Every post can be liked, shared by others
- 4. Another user is permitted to comment on displayed post

#### **Creating Django project:**

django-admin startproject Practical4\_SocialMedia

### **Creating New App:**

python manage.py startapp Registration

### Registration/models.py:

from django.db import models

```
class Registration(models.Model):
    firstname = models.CharField(max_length=100)
    lastname = models.CharField(max length=100)
    phone = models.IntegerField(max length=10)
    email = models.EmailField()
    address = models.CharField(max length=100)
    username = models.CharField(max length=100)
    password = models.CharField(max_length=100)
# Create your models here.
class SocialMediaPost(models.Model):
    title = models.CharField(max length=100)
    description = models.CharField(max length=100)
   username = models.CharField(max_length=100)
   def str (self):
        return self.title
    # Practical6
    class Meta:
        db_table = 'SocialMediaPost'
       verbose name = 'Allposts'
```

## Registration/admin.py:

```
from django.contrib import admin
from .models import Registration, SocialMediaPost

admin.site.register(Registration)

class PostDetails(admin.ModelAdmin):
    list_display = ('username', 'title', 'description')
    ordering = ['-username']

admin.site.register(SocialMediaPost, PostDetails)
```

# Registration/urls.py:

```
from django.urls import path

from .views import *

urlpatterns=[
    path('',UserRegistration.as_view(),name='registration'),
    path('submitpost',UserPost.as_view(),name='mediapost'),
    path('allpost',DisplayPosts.as_view(),name='displaypost'),
    path('<int:pk>/update/',UpdatePassword.as_view(),name='updatepassword'),
    path('login',Login.as_view(),name="login"),
```

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## Registration/views.py:

```
from django.shortcuts import render
from django.views.generic import CreateView, ListView, UpdateView
from django.urls import reverse_lazy
from .models import Registration, SocialMediaPost
class UserRegistration(CreateView):
   model = Registration
   fields = ('firstname', 'lastname', 'phone', 'email', 'address', 'username',
password')
    template_name = "registration.html"
    success url = reverse lazy('registration')
class UserPost(CreateView):
   model = SocialMediaPost
    fields = ('title', 'description', 'username')
    template_name = "mediapost.html"
    success_url = reverse_lazy('mediapost')
class DisplayPosts(ListView):
   model = SocialMediaPost
   fields = ('title', 'description')
   template_name = "displaypost.html"
    context_object_name = 'displaypost'
class Login(CreateView):
   model=Registration
   fields=('username', 'password')
    template_name="login.html"
class UpdatePassword(UpdateView):
   model = Registration
    fields = ('username', 'email', 'password')
   template_name = "forgot_password.html"
   success url = reverse lazy('displaypost')
```

# Registration/templates/registration.html:

```
<html>
<form method="POST" style="text-align:center; border: 1px solid ;">
<h1>Social Media App Demonstration</h1>
{% csrf_token %}
<h1>Registration</h1>
{{form.as_p}}
```

## Registration/templates/mediapost.html:

## Registration/templates/displaypost.html:

```
<html>
    {% csrf_token %}
    {% for post in object list reversed%}
    <h3>Username:</h3>
    {{ post.username }}
    <h3>Title:</h3>
    {{ post.title }}
    <h3>Description:</h3>
    {{ post.description }}
    <br>
    <input type="button" value="Like">
    <input type="button" value="Dislike">
    </br></br>
    <label>Reply to post:</label>
    <input type="text" value="Enter your response here"></input>
    </br></br>
    <label>Comments:</label>
    <textarea value="comments"></textarea>
</br></br>
{% endfor%}
</html>
```

# Registration/templates/login.html:

## Registration/templates/forgot password.html:

## Practical4\_SocialMedia/Settings.py:

```
INSTALLED_APPS = [
    "Registration",
]
```

## Practical4\_SocialMedia/urls.py:

```
from django.contrib import admin
from django.urls import path,include

urlpatterns = [
    path("admin/", admin.site.urls),
    path('',include('Registration.urls')),
]
```

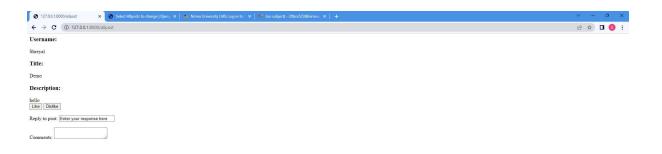
#### **Execute Following Commands now:**

python manage.py makemigrations python manage.py migrate

# **Output:**









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