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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"),

```

```
]
```

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}}
```

```

    <button type="submit" style="border: 1px solid rgb(209, 243, 18);border-
radius:50px; font-size:35px; cursor:pointer;">Register</button>
</form>

</html>

```

Registration/templates/mediapost.html:

```

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

    <button type="Submit"
        style="border: 1px solid rgb(243, 239, 26); border-radius:50px; font-
size:35px; cursor:pointer;">Submit</button>
</form>

```

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:

```

<html>
<form method="POST" style="text-align:center; border: 1px solid ;">
<h1>Social Media App Demonstration</h1>
    {% csrf_token %}
    <h1>Login</h1>
    {{form.as_p}}
    <button type="submit" style="border: 1px solid rgb(196, 235, 27); border-
radius:50px; font-size:35px; cursor:pointer;">Login</button>
</form>
</html>

```

Registration/templates/forgot_password.html:

```

<form method="POST" style="text-align:center; border: 1px solid ;">
    <h1>Forgot Password?</h1>
    {% csrf_token %}
    {{form.as_p}}
    <button type="submit"
        style="border: 1px solid rgb(204, 247, 17); border-radius:50px; font-
size:35px; cursor:pointer;">Reset</button>
</form>

```

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:

A browser window showing the 'Social Media App Demonstration' registration page. The page has a title 'Social Media App Demonstration' and a subtitle 'Registration'. Below the subtitle are input fields for 'Firstname:', 'Lastname:', 'Phone:', 'Email:', 'Address:', 'Username:', and 'Password:'. At the bottom of the form is a 'Register' button.

Social Media App Demonstration

Registration

Firstname:

Lastname:

Phone:

Email:

Address:

Username:

Password:

Register

A browser window showing the 'Social Media App Demonstration' post page. The page has a title 'Social Media App Demonstration' and a subtitle 'Post'. Below the subtitle are input fields for 'Title:', 'Description:', and 'Username:'. At the bottom of the form is a 'Submit' button.

Social Media App Demonstration

Post

Title:

Description:

Username:

Submit

A browser window showing the 'Social Media App Demonstration' user profile page. The page displays the username 'Shreyal' and the title 'Demo'. Below the title is a 'Description:' section with a 'hello' button and 'Like' and 'Dislike' buttons. There is a 'Reply to post:' section with a text input field 'Enter your response here' and a 'Comments:' section with a text input field.

Username:

Shreyal

Title:

Demo

Description:

hello

Like Dislike

Reply to post: Enter your response here

Comments:

A browser window showing the 'Social Media App Demonstration' login page. The page has a title 'Social Media App Demonstration' and a subtitle 'Login'. Below the subtitle are input fields for 'Username:' and 'Password:'. At the bottom of the form is a 'Login' button.

Social Media App Demonstration

Login

Username:

Password:

Login

127.0.0.1:8000/1/update/

Select Allposts to change [Open]

Nirma University LMS Log in to

[no subject] - 200x523@nirma-

127.0.0.1:8000/1/update/

Forgot Password?

Username: | adsdadada

Email: | ssdof@s.com

Password: | daadsdaa

Reset

END