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### Practical 5

**Aim:** Continue with the social media application using the Django platform.  
Creation of custom forms for the social media application.

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

django-admin startproject Practical4\_SocialMedia

#### **Creating New App:**

python manage.py startapp Registration

Registration/forms.py:

```
from django import forms

class User_Registration(forms.Form):
    firstname=forms.CharField(label="Enter First Name:")
    lastname=forms.CharField(label="Enter Last Name")
    phone=forms.DecimalField(label="Enter Contact No.")
    email=forms.EmailField(label="Enter Email Address")
    address=forms.CharField(label="",widget=forms.Textarea(attrs={'placeholder': 'Enter Address'}))
    username=forms.CharField(label="Enter Username")
    password=forms.CharField(widget=forms.PasswordInput)

class User_Post(forms.Form):
    title=forms.CharField(label="Enter Post Title:")
    description=forms.CharField(label="",widget=forms.Textarea(attrs={'placeholder': 'Enter Post Description'}))
    username=forms.CharField(label="Enter Username")
```

```

class Display_Posts(forms.Form):
    reply=forms.CharField(label="Reply")
    comments=forms.CharField(label="",widget=forms.Textarea(attrs={'placeholder': 'All Comments'}))

class LoginForm(forms.Form):
    username=forms.CharField(label="Enter Username")
    password=forms.EmailField(label="Enter Password")

class ForgotPassword(forms.Form):
    username=forms.CharField(label="Enter Username")
    password=forms.EmailField(label="Enter Email Id")
    newpassword=forms.CharField(label="Enter New Password")

```

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
from Registration.forms import User_Post, User_Registration,
Display_Posts, LoginForm, ForgotPassword

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')
    # context_object_name = 'all_post'

def register(request):
    userreg = User_Registration()
    return render(request, "registration_forms.html", {'form': userreg})

def user_Post(request):
    postuser = User_Post()
    return render(request, "post_forms.html", {'form': postuser})

def display_post(request):
    all = Display_Posts()
    return render(request, "form_display_Posts.html", {'form': all})

def login_user(request):
    log = LoginForm()
    return render(request, 'login_form.html', {'form': log})

def forgot_password(request):
    forgpass = ForgotPassword()
    return render(request, 'forgot_password_form.html', {'form': forgpass})

```

Registration/urls.py:

```

from django.urls import path
# from registration.forms import ForgotPassword
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"),

```

```

# Practical5
path('registerform',register),
path('addpostform',user_Post),
path('displayallposts',display_post),
path('forgotpassword',forgot_password),
path('loginform',login_user),
]

```

Registration/templates/registration\_forms.html:

```

<form method="POST" style="text-align:center; border: 1px solid ;">
    <h1>Social Media App Demonstration</h1>
    <h1>Registration</h1>
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit" class="save btn btn-default" style="border: 1px
solid rgb(176, 235, 15); border-radius:50px; font-size:35px;
cursor:pointer;">Register</button>
</form>

```

Registration/templates/login\_form.html:

```

<form method="POST" style="text-align:center; border: 1px solid ;">
    <h1>Social Media App Demonstration</h1>
    <h1>Login</h1>
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit" class="save btn btn-default" style="border: 1px
solid rgb(172, 228, 18); border-radius:50px; font-size:35px;
cursor:pointer;">Login</button>
</form>

```

Registration/templates/post\_forms.html:

```

<form method="POST" style="text-align:center; border: 1px solid ;">
    <h1>Social Media App Demonstration</h1>
    <h1>Post</h1>
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit" class="save btn btn-default"
style="border: 1px solid rgb(228, 231, 20); border-radius:50px;
font-size:35px; cursor:pointer;">Submit Post</button>
</form>

```

Registration/templates/form\_display\_Posts.html:

```
<form method="POST" style="text-align:center; border: 1px solid ;">

<h1>Posts</h1>
<br>
<h3>Post by:</h3>
<br>
<h3>Title:</h3>
<br>
<h3>Description:</h3>

    {% csrf_token %}
    {{ form.as_p }}
<input type="button" value="Like">
<input type="button" value="Dislike">

</form>
```

Registration/templates/forgot\_password\_form.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(201, 235, 8); border-radius:50px; font-
size:35px; cursor:pointer;">Reset</button>
</form>
```

Output:

The screenshot shows a web browser window with multiple tabs. The active tab is titled '127.0.0.1:8000/registerform'. The browser address bar shows '127.0.0.1:8000/registerform'. The page content is a registration form titled 'Social Media App Demonstration' and 'Registration'. The form contains the following fields and labels:

- Enter First Name:
- Enter Last Name:
- Enter Contact No.:
- Enter Email Address:
- Enter Address:
- Enter Username:
- Password:
-

127.0.0.1:8000/addpostform

### Social Media App Demonstration

#### Post

Enter Post Title:

Enter Post Description:

Enter Username:

**Submit Post**

127.0.0.1:8000/displayallposts

### Posts

Post by:

Title:

Description:

Reply:

All Comments

127.0.0.1:8000/loginform

### Social Media App Demonstration

#### Login

Enter Username:

Enter Password:

**Login**

127.0.0.1:8000/forgetpassword

### Forgot Password

Enter Username:

Enter Email Id:

Enter New Password:

**Reset**

\*\*\*END\*\*\*