

INSTITUTE OF TECHNOLOGY, NIRMA UNIVERSITY

2CSDE86 Application Development Framework PRACTICAL 4

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Semester: 7th

Teacher's Signature:

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

1. ... Continue from Practical 3

2. CRUD Operation on User

/p3/settings.py

```
# Application definition

INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'social',
    'state',
    'posts'
]
```

/p3/urls.py

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

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

User App

/p3/social/models.py

/p3/social/admin.py

```
from django.contrib import admin

# jaimik : Admin@123

# Register your models here.
from .models import User
admin.site.register(User)
```

/p3/social/urls.py

```
from django.urls import path, include
from . import views

urlpatterns = [
    path('', views.home, name='home'),
    path('create/', views.CreateUser.as_view(), name="CreateUser"),
    path('list/', views.ListUser.as_view(), name='ListUsers'),
    path("user/<int:pk>", views.UserDetail.as_view(), name="UserDetail"),
    path('update/<int:pk>', views.UpdateUser.as_view(), name='UpdateUser'),
    path('delete/<int:pk>', views.RemoveUser.as_view(), name='RemoveUser')
]
```

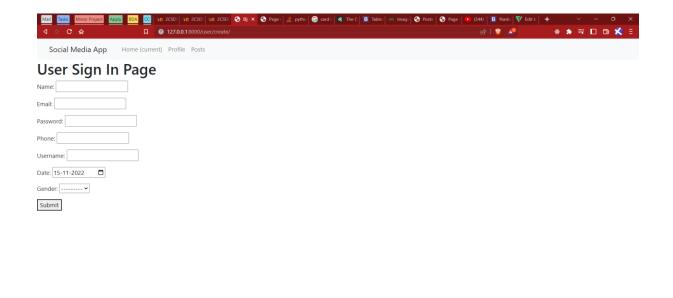
/p3/social/views.py

```
from http.client import HTTPResponse
from django.shortcuts import render
from django.views.generic import ListView, DetailView
from django.views.generic.edit import CreateView, UpdateView, DeleteView
from .models import User
from django.urls import reverse lazy
from django.http import HttpResponse
from django.contrib.admin.widgets import AdminDateWidget
# Create your views here.
# Base View
def home(request):
    # template name = 'home.html'
    return render(request, 'templates/home.html')
# List Users View
class ListUser(ListView):
    model = User
    query_results = User.objects.all()
    template_name = 'ListUsers.html'
class UserDetail(DetailView):
    model = User
    template_name = 'UserDetail.html'
# Create User
class CreateUser(CreateView):
    model= User
    fields = '__all__'
    template name = 'CreateUser.html'
    success_url = reverse_lazy('ListUsers')
    # to display date picker widget in form
    def get_form(self, form_class=None):
        form = super(CreateUser, self).get_form(form_class)
        form.fields['birthdate'].widget = AdminDateWidget(attrs={'type':
'date'})
        return form
# Update User View
class UpdateUser(UpdateView):
    model = User
    fields = '__all__'
    template_name = 'UpdateUser.html'
    success url = reverse lazy('ListUsers')
# Remove User View
class RemoveUser(DeleteView):
    model = User
    template_name = 'RemoveUser.html'
    success_url = reverse_lazy('ListUsers')
```

/p3/social/templates/home.html

```
<html lang="en">
<head>
 <meta charset="UTF-8">
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0/dist/css/bootstrap.min.css"
       rel="stylesheet"
       integrity="sha384-
wEmeIV1mKuiNpC+IOBjI7aAzPcEZeedi5yW5f2yOq55WWLwNGmvvx4Um1vskeMj0"
       crossorigin="anonymous">
 <title>Django Cards</title>
</head>
<body>
   <nav class="navbar navbar-expand-lg navbar-light bg-light">
     <a class="navbar-brand" href="/" style="margin:0 2%">Social Media
App</a>
     <button class="navbar-toggler" type="button" data-toggle="collapse"</pre>
data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent"
aria-expanded="false" aria-label="Toggle navigation">
       <span class="navbar-toggler-icon"></span>
     </button>
     <div class="collapse navbar-collapse" style=""</pre>
id="navbarSupportedContent">
       <a class="nav-link" href="#">Home <span class="sr-</pre>
only">(current)</span></a>
         <a class="nav-link" href="user/list/">Profile</a>
         <a class="nav-link" href="/">Posts</a>
         </div>
   </nav>
   <div style="display: flex; flex-direction: row; flex-wrap: wrap">
       {% comment %} {% block %}
       {% endblock %} {% endcomment %}
   </div>
</body>
</html>
```

/p3/social/templates/CreateUser.html



/p3/social/templates/ListUsers.html

```
<!-- CSS only -->
{% include 'home.html' %}
<h1> Registered User </h1>
<a href="/user/create/" class="btn btn-primary">Create User </a>
<thead>
     >
        Name
        Email
        Phone
        BirthDate 
        Gender
        Edit
        Delete 
        Detail 
     </thead>
```

```
{% for users in object_list %}
      {{users.name}}
        {{users.email}}
         {{users.phone}}
        {{users.birthdate}}
        {{users.gender}}
         <a href="{% url "UpdateUser" users.id %}">Update</a>
        >
            <a href="{% url "RemoveUser" users.id %}">Delete </a>
         >
            <a href="{% url "UserDetail" users.id %}">Details </a>
         {% endfor %}
```

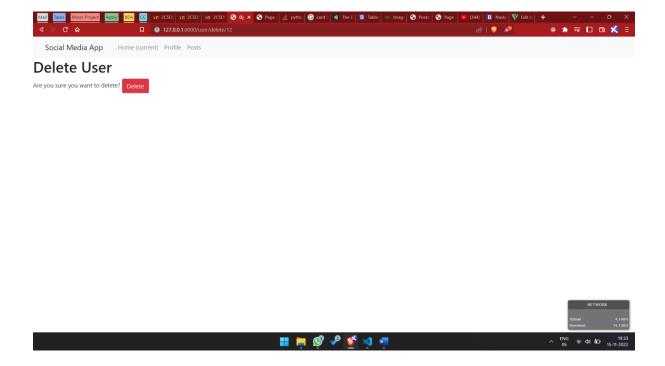




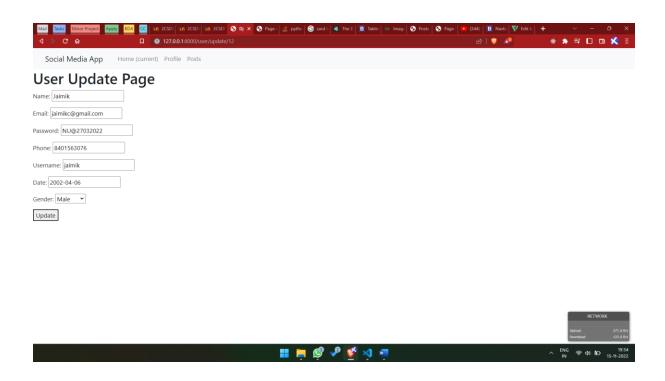
/p3/social/templates/RemoveUser.html

```
{% include 'home.html' %}

<h1> Delete User </h1>
<form method="POST">
        {% csrf_token %}
        Are you sure you want to delete?
        <button type="submit" class="btn btn-danger">Delete</button>
</form>
```



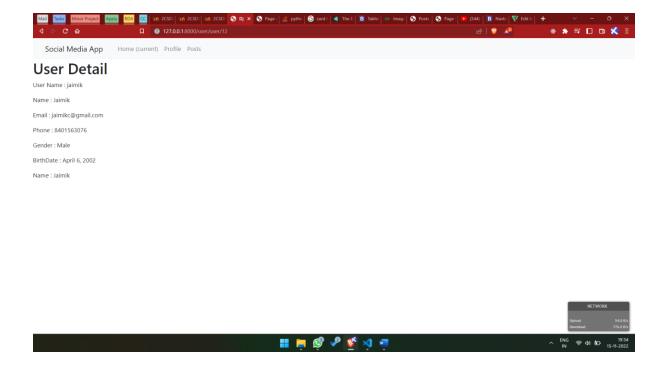
/p3/social/templates/UpdateUser.html



/p3/social/templates/UserDetail.html

```
{% include 'home.html' %}

<h1> User Detail </h1>
 User Name : {{object.username}}
 Name : {{object.name}}
 Email : {{object.email}}
 Phone : {{object.phone}}
 Gender : {{object.gender}}
 BirthDate : {{object.birthdate}}
 Name : {{object.name}}
```



Post App

/p3/posts/models.py

```
from django.db import models

# Create your models here.

class Posts(models.Model):
    title = models.CharField(max_length=250)
    description = models.CharField(max_length=250)
    like = models.IntegerField(max_length=10, default=0, editable=False)
    dislike = models.IntegerField(max_length=10, default=0, editable=False)
    image = models.ImageField(max_length=200, upload_to='uploads/')
```

/p3/posts/urls.py

```
from django.urls import path
from . import views
from django.conf import settings
from django.conf.urls.static import static

urlpatterns = [
    path('', views.ListPosts.as_view(), name="ListPosts"),
    path('create/', views.CreatePost.as_view(), name="CreatePost"),
    path('update/<int:pk>', views.UpdatePost.as_view(), name="UpdatePost"),
    path('delete/<int:pk>', views.RemovePost.as_view(), name="RemovePost")
]+ static(settings.MEDIA_URL, document_root=settings.MEDIA_URL)
```

/p3/posts/admin.py

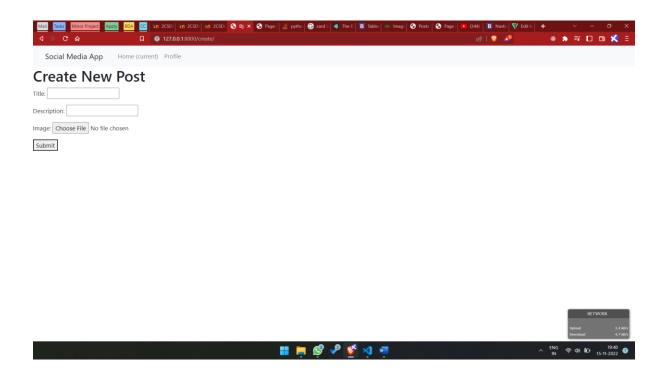
```
from django.contrib import admin

# Register your models here.
from .models import Posts
admin.site.register(Posts)
```

/p3/posts/views.py

```
from django.shortcuts import render
from django.shortcuts import render
from django.views.generic import ListView, DetailView
from django.views.generic.edit import CreateView, UpdateView, DeleteView
from .models import Posts
from django.urls import reverse lazy
from django.http import HttpResponse
# Create your views here.
class ListPosts(ListView):
    model = Posts
    query_resuls = Posts.objects.all()
    template_name = "ListPosts.html"
class CreatePost(CreateView):
    model = Posts
    fields = '__all__'
    template name = 'CreatePost.html'
    success_url = reverse_lazy('ListPosts')
class UpdatePost(UpdateView):
   model = Posts
    fields = '__all__'
    template_name = 'UpdatePost.html'
    success_url = reverse_lazy('ListPosts')
class RemovePost(DeleteView):
    model= Posts
    template name = 'RemovePost.html'
    success_url = reverse_lazy('ListPosts')
```

/p3/posts/templates/CreatePost.html

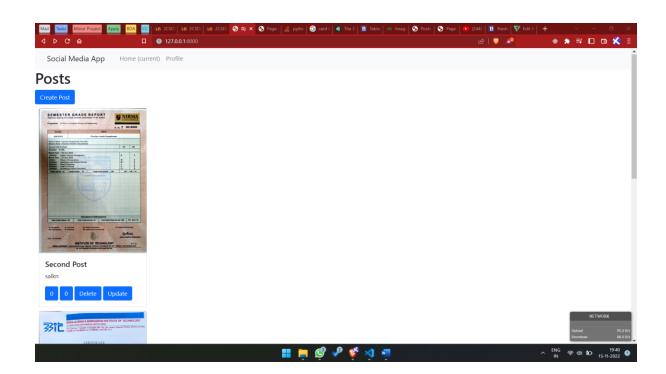


/p3/posts/templates/index.html

```
<html lang="en">
<head>
 <meta charset="UTF-8">
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0/dist/css/bootstrap.min.css"
       rel="stylesheet"
       integrity="sha384-
wEmeIV1mKuiNpC+IOBjI7aAzPcEZeedi5yW5f2yOq55WWLwNGmvvx4Um1vskeMj0"
       crossorigin="anonymous">
 <title>Django Cards</title>
</head>
<body>
   <nav class="navbar navbar-expand-lg navbar-light bg-light">
     <a class="navbar-brand" href="#" style="margin:0 2%">Social Media
App</a>
     <button class="navbar-toggler" type="button" data-toggle="collapse"</pre>
data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent"
aria-expanded="false" aria-label="Toggle navigation">
       <span class="navbar-toggler-icon"></span>
     </button>
     <div class="collapse navbar-collapse" style=""</pre>
id="navbarSupportedContent">
       <a class="nav-link" href="#">Home <span class="sr-</pre>
only">(current)</span></a>
         <a class="nav-link" href="user/list/">Profile</a>
         </div>
   </nav>
   <div style="display: flex; flex-direction: row; flex-wrap: wrap">
       {% comment %} {% block %}
       {% endblock %} {% endcomment %}
   </div>
</body>
</html>
```

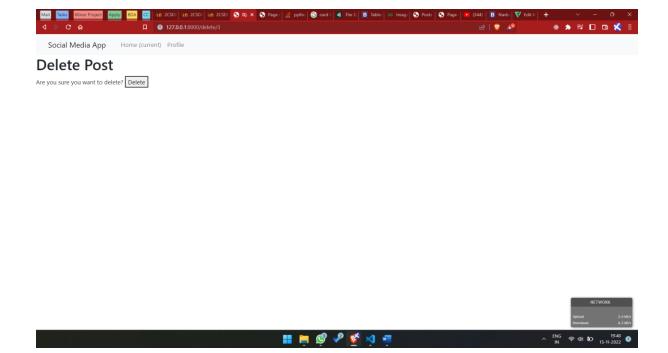
/p3/posts/templates/ListPosts.html

```
<!-- CSS only -->
{% include 'index.html' %}
<div>
    <h1> Posts </h1>
    <a class="btn btn-primary" href="/create">Create Post</a>
</div>
        {% for posts in object_list %}
        {% comment %} D:\BE\Sem-7\ADF\LAB\p3\media {% endcomment %}
        <div class="card" style="width: 18rem; margin: 10px">
            <img src="/be/sem-7/adf/lab/p3/media/{{posts.image.url}}"</pre>
class="card-img-top" >
            <div class="card-body">
              <div style="display: flex; flex-direction: row">
                <h5 class="card-title">{{posts.title}}</h5>
              </div>
              {{posts.description}}
              <a href="/like" class="btn btn-primary">{{posts.like}}</a>
              <a href="/dislike" class="btn btn-primary">{{posts.dislike}}</a>
              <a href="{% url "RemovePost" posts.id %}" class="btn btn-</pre>
primary">Delete </a>
              <a href="{% url "UpdatePost" posts.id %}" class="btn btn-</pre>
primary">Update</a>
            </div>
          </div>
        {% endfor %}
```



/p3/posts/templates/RemovePost.html

```
{% include 'index.html' %}
<h1> Delete Post </h1>
<form method="POST" enctype="multipart/form-data">
        {% csrf_token %}
        Are you sure you want to delete?
        <button type="submit">Delete</button>
</form>
```



/p3/posts/templates/UpdatePost.html

