

**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

import datetime

from django.db import models

# Create your models here.

class User(models.Model):

    CHOICE = (

        ("Male", "Male"),

        ("Female", "Female")

    )

    name = models.CharField(max\_length=250)

    email = models.EmailField()

    password = models.CharField(max\_length=18)

    phone = models.CharField(max\_length=200)

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

    birthdate = models.DateField("Date",default=datetime.date.today())

    gender = models.CharField(choices=CHOICE, max\_length=100)

## /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">

  <link 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" 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="" id="navbarSupportedContent">

        <ul class="navbar-nav mr-auto">

          <li class="nav-item active">

            <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>

          </li>

          <li class="nav-item">

            <a class="nav-link" href="user/list/">Profile</a>

          </li>

          <li class="nav-item">

            <a class="nav-link" href="/">Posts</a>

          </li>

        </ul>

      </div>

    </nav>

    <div style="display: flex; flex-direction: row; flex-wrap: wrap">

        {% comment %} {% block  %}

        {% endblock  %} {% endcomment %}

    </div>

</body>

</html>

## /p3/social/templates/CreateUser.html

{% include 'home.html' %}

<h1>User Sign In Page</h1>

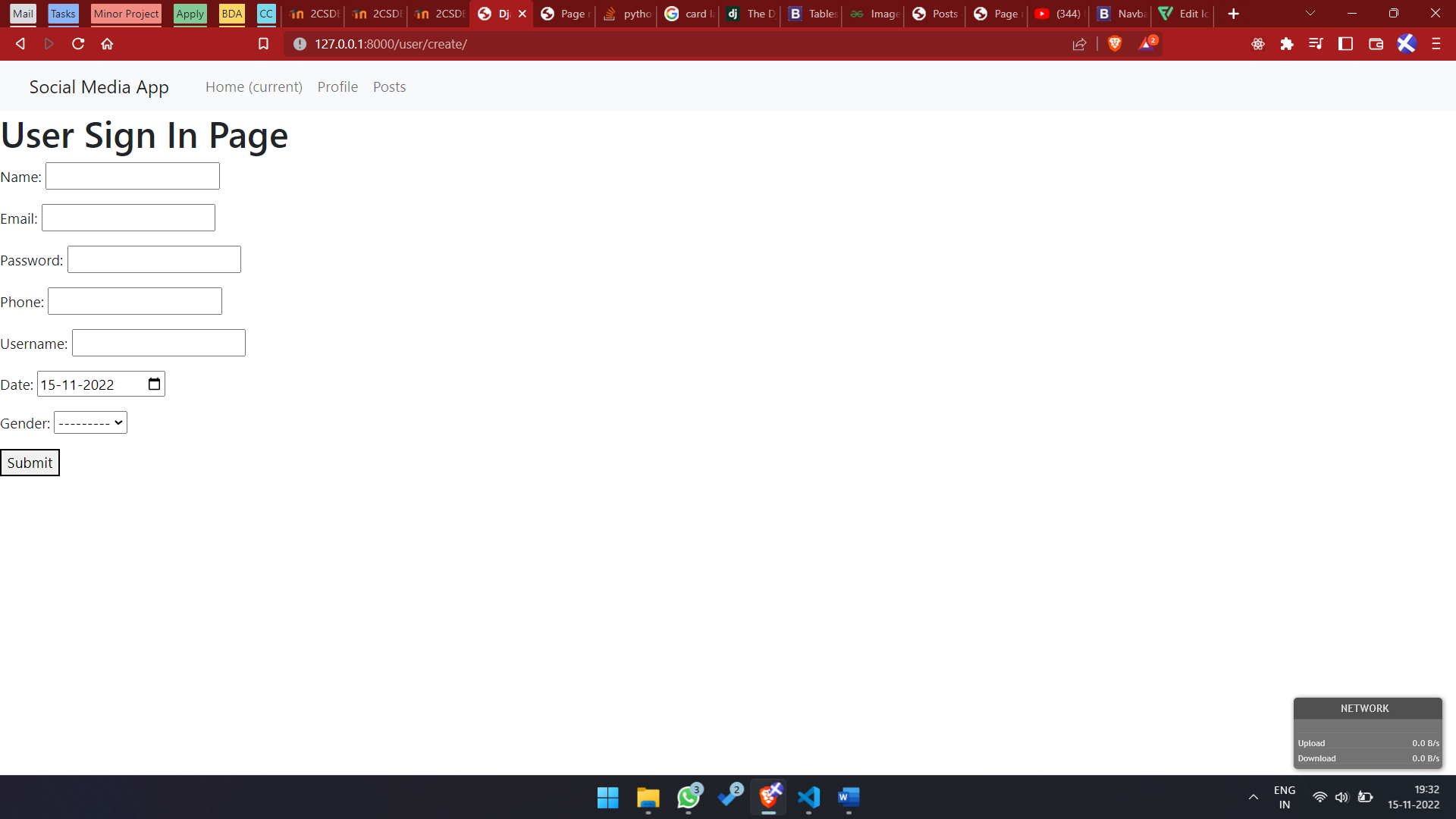
<form method="POST">

    {% csrf\_token %}

    {{form.as\_p}}

    <button type="submit">Submit</button>

</form>



## /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>

<table class="table">

    <thead>

        <tr>

            <th>Name</th>

            <th>Email</th>

            <th>Phone</th>

            <th>BirthDate </th>

            <th>Gender</th>

            <th>Edit</th>

            <th>Delete </th>

            <th>Detail </th>

        </tr>

    </thead>

    <tbody>

        {% for users in object\_list %}

        <tr>

            <td>{{users.name}}</td>

            <td>{{users.email}}</td>

            <td>{{users.phone}}</td>

            <td>{{users.birthdate}}</td>

            <td>{{users.gender}}</td>

            <td>

                <a href="{% url "UpdateUser" users.id %}">Update</a>

            </td>

            <td>

                <a href="{% url "RemoveUser" users.id %}">Delete </a>

            </td>

            <td>

                <a href="{% url "UserDetail" users.id %}">Details </a>

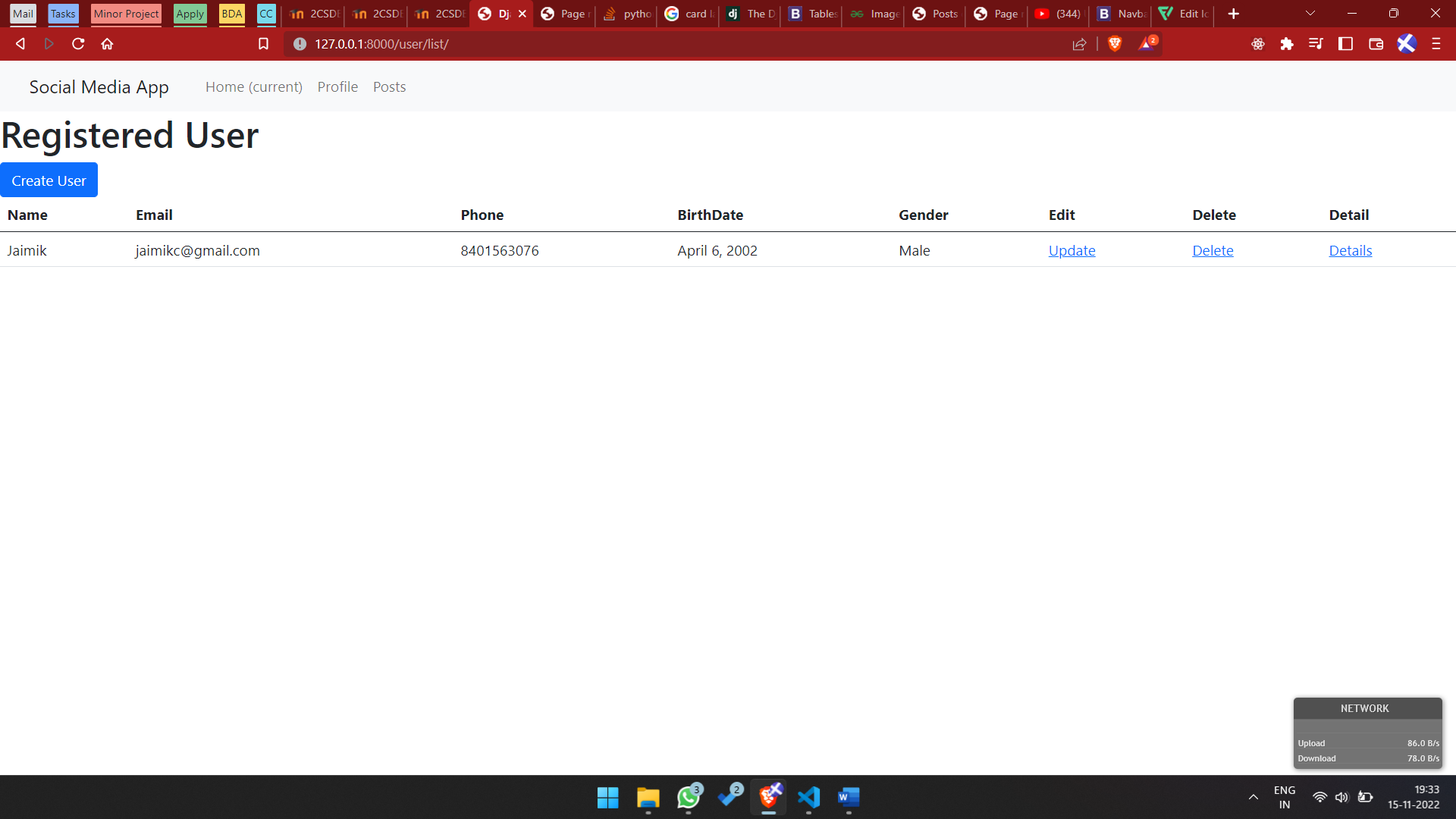
            </td>

         </tr>

        {% endfor %}

    </tbody>

</table>



## /p3/social/templates/RemoveUser.html

{% include 'home.html' %}

<h1> Delete User </h1>

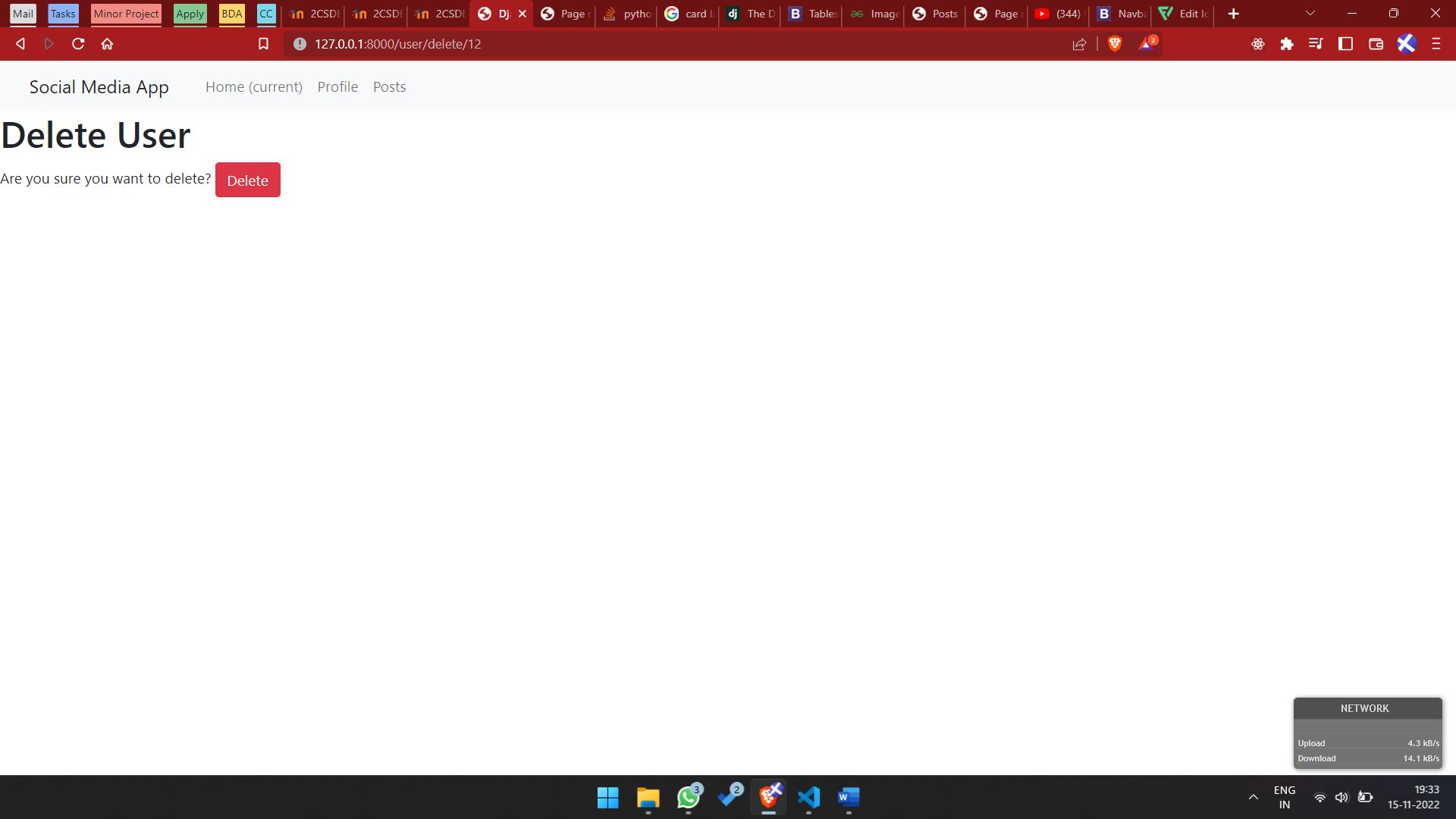
<form method="POST">

    {% csrf\_token %}

    Are you sure you want to delete?

    <button type="submit" class="btn btn-danger">Delete</button>

</form>



## /p3/social/templates/UpdateUser.html

{% include 'home.html' %}

<h1>User Sign In Page</h1>

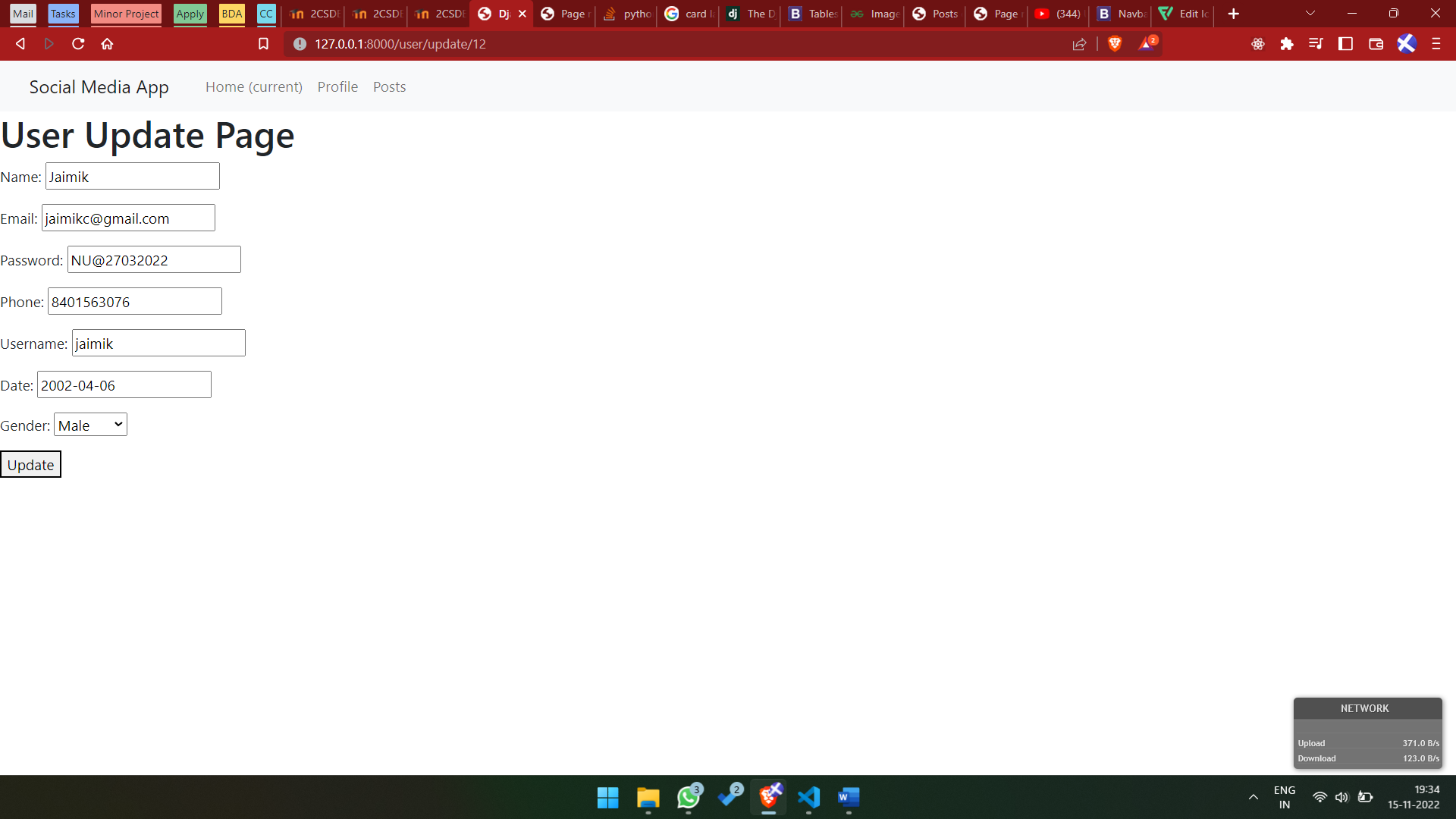
<form method="POST">

    {% csrf\_token %}

    {{form.as\_p}}

    <button type="submit">Update</button>

</form>



## /p3/social/templates/UserDetail.html

{% include 'home.html' %}

<h1> User Detail </h1>

<p> User Name : {{object.username}}</p>

<p> Name : {{object.name}}</p>

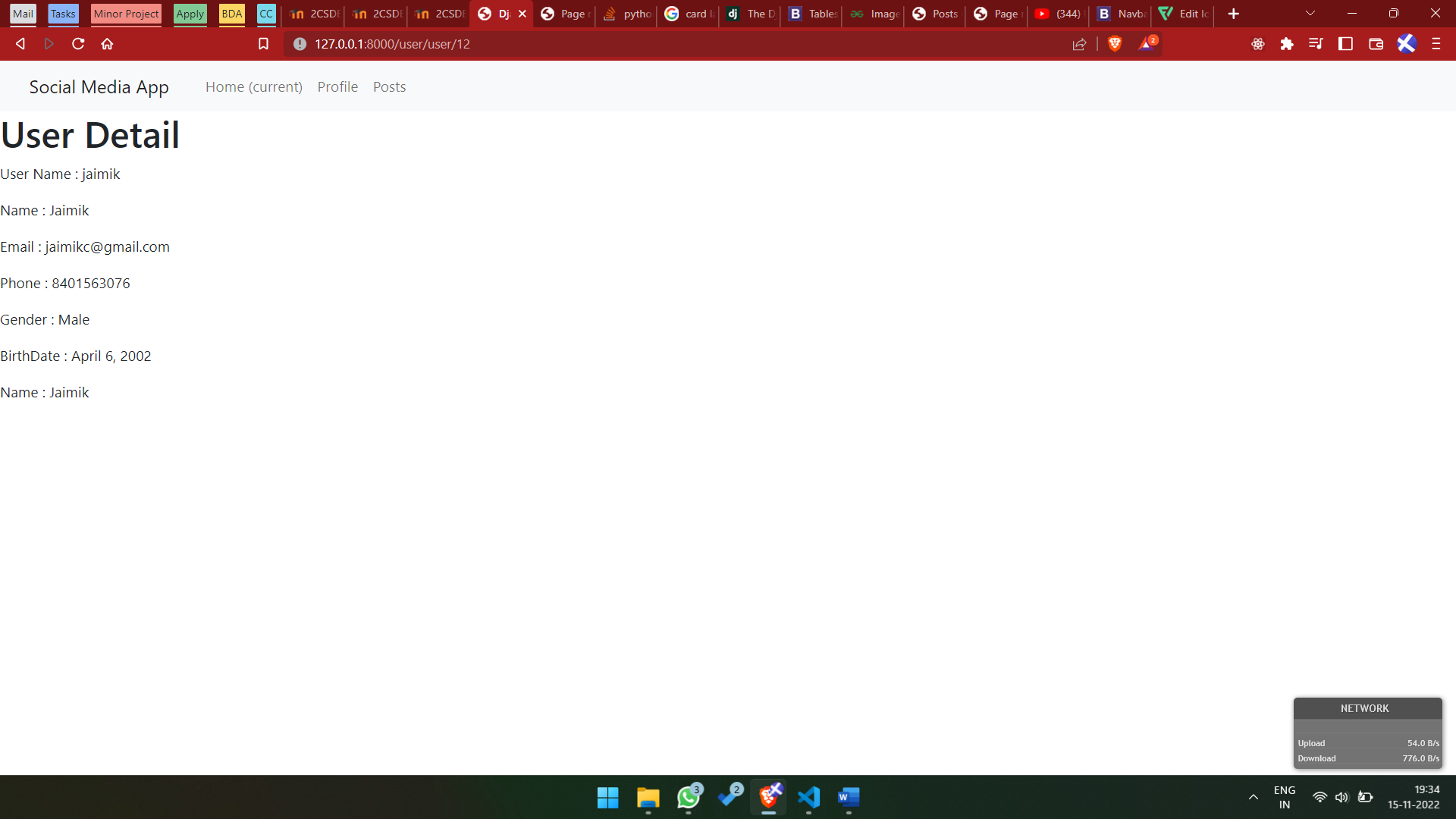
<p> Email : {{object.email}}</p>

<p> Phone : {{object.phone}}</p>

<p> Gender : {{object.gender}}</p>

<p> BirthDate : {{object.birthdate}}</p>

<p> Name : {{object.name}}</p>



# **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

{% include 'index.html' %}

<h1>Create New Post</h1>

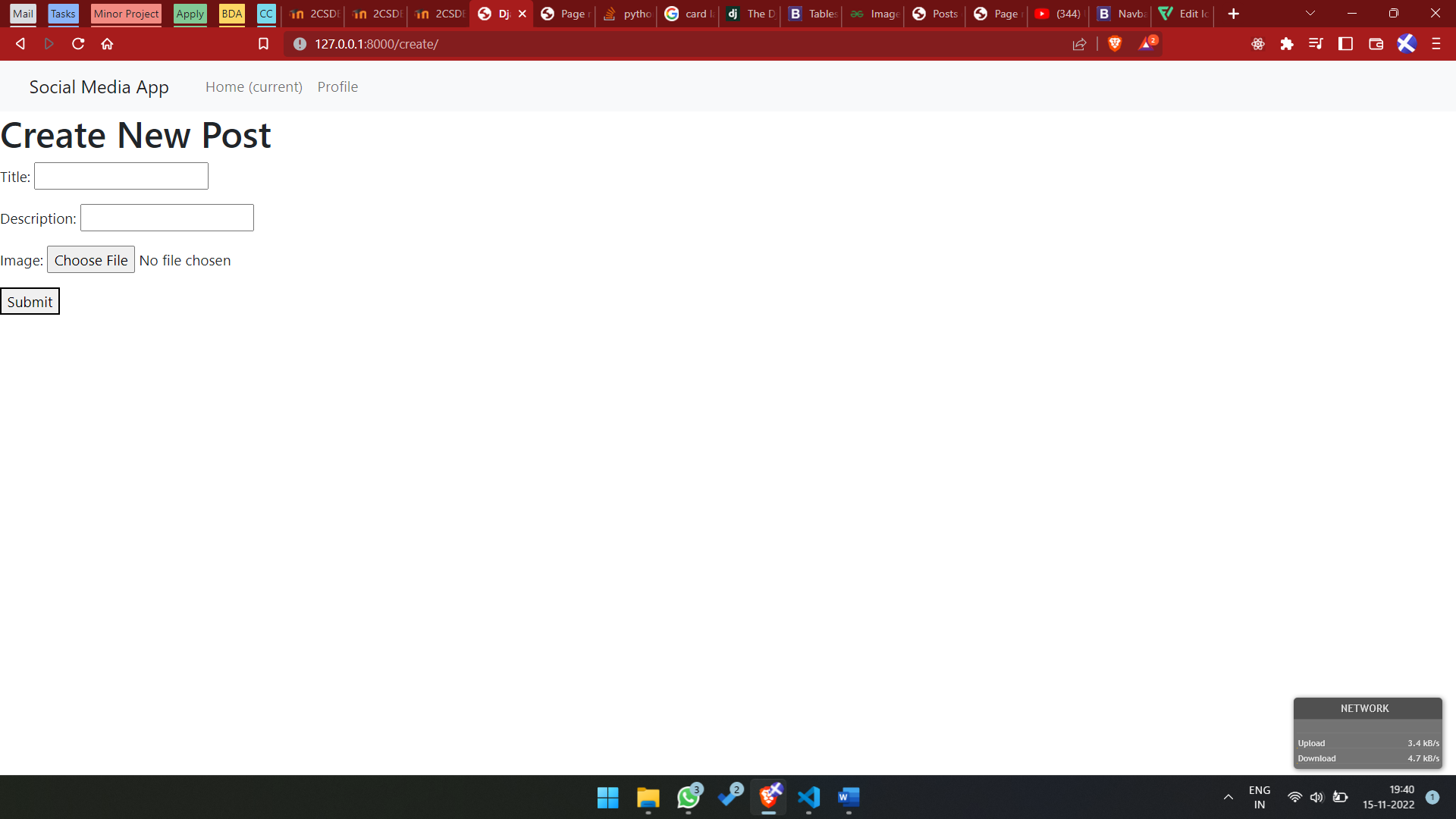
<form method="POST" enctype="multipart/form-data">

    {% csrf\_token %}

    {{form.as\_p}}

    <button type="submit">Submit</button>

</form>



## /p3/posts/templates/index.html

<html lang="en">

<head>

  <meta charset="UTF-8">

  <link 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" 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="" id="navbarSupportedContent">

        <ul class="navbar-nav mr-auto">

          <li class="nav-item active">

            <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>

          </li>

          <li class="nav-item">

            <a class="nav-link" href="user/list/">Profile</a>

          </li>

        </ul>

      </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}}" class="card-img-top" >

            <div class="card-body">

              <div style="display: flex; flex-direction: row">

                <h5 class="card-title">{{posts.title}}</h5>

              </div>

              <p class="card-text">{{posts.description}}</p>

              <a href="/like" class="btn btn-primary">{{posts.like}}</a>

              <a href="/dislike" class="btn btn-primary">{{posts.dislike}}</a>

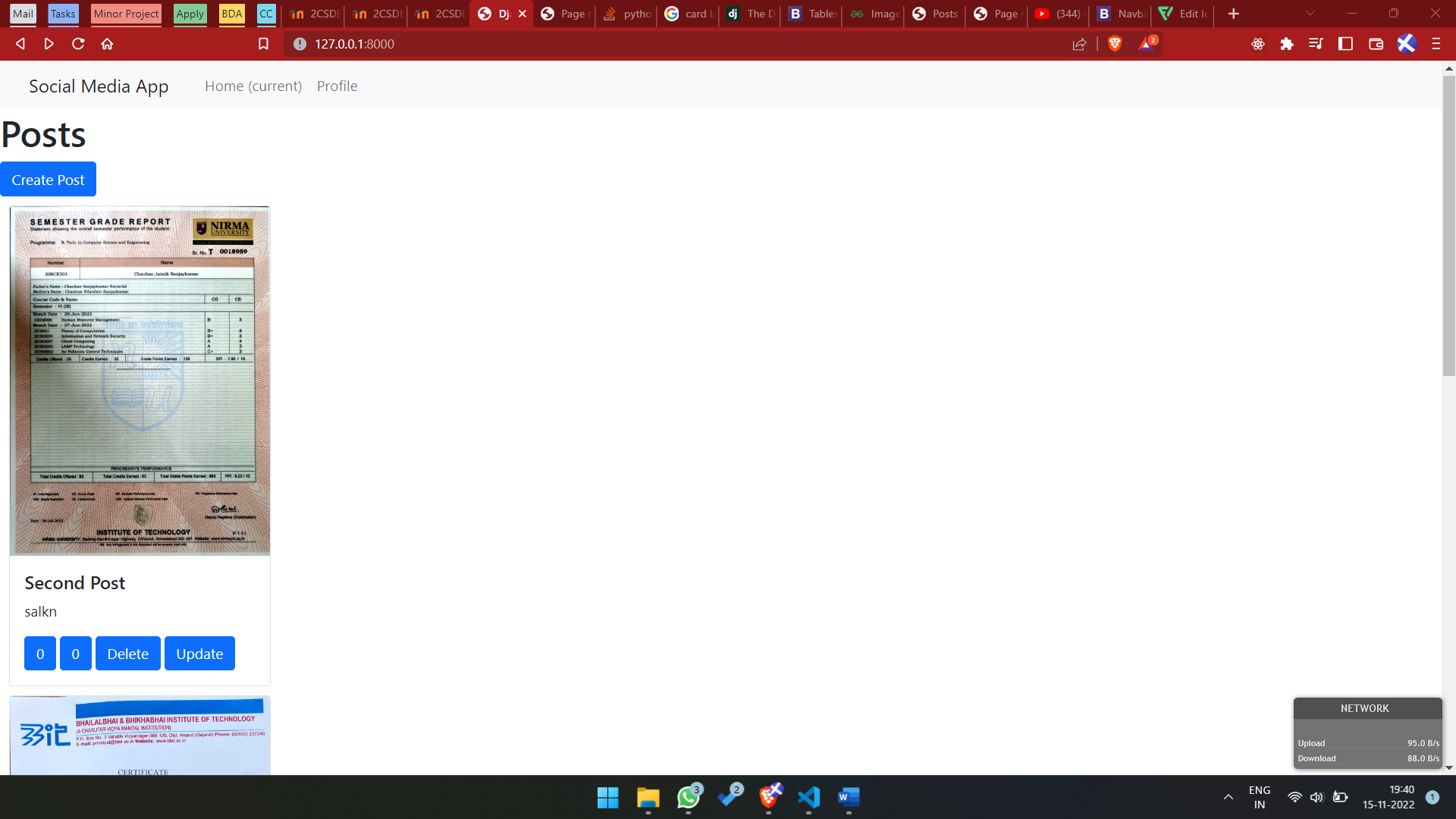
              <a href="{% url "RemovePost" posts.id %}" class="btn btn-primary">Delete </a>

              <a href="{% url "UpdatePost" posts.id %}" class="btn btn-primary">Update</a>

            </div>

          </div>

        {% endfor %}



## /p3/posts/templates/RemovePost.html

{% include 'index.html' %}

<h1> Delete Post </h1>

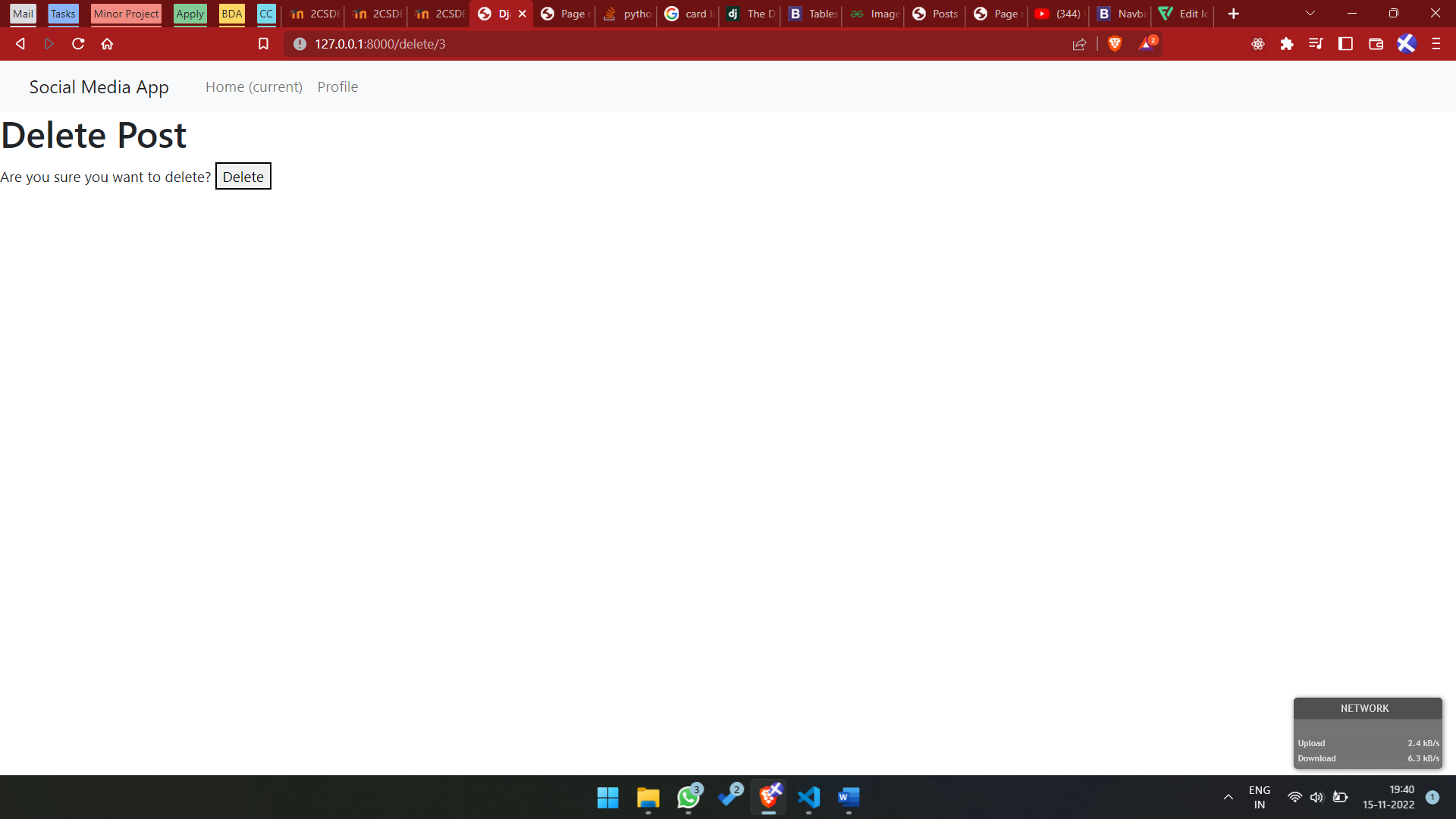
<form method="POST" enctype="multipart/form-data">

    {% csrf\_token %}

    Are you sure you want to delete?

    <button type="submit">Delete</button>

</form>



## /p3/posts/templates/UpdatePost.html

{% include 'index.html' %}

<h1>Post Update Page</h1>

<form method="POST" enctype="multipart/form-data">

    {% csrf\_token %}

    {{form.as\_p}}

    <button type="submit">Update</button>

</form>

