**SOURCE CODE**

**User side views.py**

from django.shortcuts import render, HttpResponse

from django.contrib import messages

from tenacity import retry\_if\_not\_exception\_message

from .forms import UserRegistrationForm

from .models import UserRegistrationModel

from django.conf import settings

import pandas as pd

import os

# Create your views here.

def UserRegister(request):

if request.method == 'POST':

form = UserRegistrationForm(request.POST)

if form.is\_valid():

form.save()

form = UserRegistrationForm()

return render(request, 'userregister.html', {'form': form})

else:

form = UserRegistrationForm()

return render(request, 'userregister.html', {'form': form})

def UserLoginCheck(request):

if request.method == "POST":

loginid = request.POST.get('loginname')

pswd = request.POST.get('pswd')

print("Login ID = ", loginid, ' Password = ', pswd)

try:

check = UserRegistrationModel.objects.get(loginid=loginid, password=pswd)

status = check.status

print('Status is = ', status)

if status == "activated":

request.session['id'] = check.id

request.session['loggeduser'] = check.name

request.session['loginid'] = loginid

request.session['email'] = check.email

print("User id At", check.id, status)

return render(request, 'users/UserHome.html', {})

else:

messages.success(request, 'Your Account Not at activated')

return render(request, 'userlogin.html')

except Exception as e:

print('Exception is ', str(e))

pass

messages.success(request, 'Invalid Login id and password')

return render(request, 'userlogin.html', {})

# Create your views here.

def index1(request):

return render(request, 'base.html')

def userbase(request):

return render(request, 'users/UserHome.html')

def usrViewData(request):

path = os.path.join(settings.MEDIA\_ROOT, 'Punedata.csv')

df = pd.read\_csv(path)

df = df.to\_html(index=False)

return render(request, 'users/viewDataset.html', {'data': df})

def usrEDAData(request):

# from .utility.edaanalysis import startEda

# obj = startEda()

return render(request, 'users/edanalysis.html', {})

def usrMachineLearning(request):

from .utility.MachineLearning import startProcess

df\_dt, dt\_acc, rf\_df, rf\_acc, knn\_df, knn\_acc = startProcess()

return render(request, 'users/usrMLResults.html',

{'df\_dt': df\_dt, 'dt\_acc': dt\_acc, 'rf\_df': rf\_df, 'rf\_acc': rf\_acc, 'knn\_df': knn\_df,

'knn\_acc': knn\_acc})

def usrPredictForm(request):

path = os.path.join(settings.MEDIA\_ROOT, 'Punedata.csv')

df = pd.read\_csv(path)

lac = df['LAC'].values

if request.method=='POST':

from .utility.userPredictions import get\_user\_input

lac = request.POST.get('laccode')

result = get\_user\_input(lac)

msg = f'In The LAC {lac} the Internet Consumption {result} GB (lacks)'

return render(request, 'users/predictForm.html', {'lac': lac,'msg':msg})

else:

return render(request,'users/predictForm.html',{'lac': lac})

**base.html:**

{% load static %}

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta content="width=device-width, initial-scale=1.0" name="viewport">

<title>Internet Bandwidth</title>

<meta content="" name="description">

<meta content="" name="keywords">

<!-- Favicons -->

<link href="{% static 'img/favicon.png' %}" rel="icon">

<link href="{% static 'img/apple-touch-icon.png' %}" rel="apple-touch-icon">

<!-- Google Fonts -->

<link href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Raleway:300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300,300i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">

<!-- Vendor CSS Files -->

<link href="{% static 'vendor/bootstrap/css/bootstrap.min.css' %}" rel="stylesheet">

<link href="{% static 'vendor/bootstrap-icons/bootstrap-icons.css' %}" rel="stylesheet">

<link href="{% static 'vendor/boxicons/css/boxicons.min.css' %}" rel="stylesheet">

<link href="{% static 'vendor/glightbox/css/glightbox.min.css' %}" rel="stylesheet">

<link href="{% static 'vendor/remixicon/remixicon.css' %}" rel="stylesheet">

<link href="{% static 'vendor/swiper/swiper-bundle.min.css' %}" rel="stylesheet">

<!-- Template Main CSS File -->

<link href="{% static 'css/style.css' %}" rel="stylesheet">

<!-- =======================================================

\* Template Name: MeFamily - v4.9.1

\* Template URL: https://bootstrapmade.com/family-multipurpose-html-bootstrap-template-free/

\* Author: BootstrapMade.com

\* License: https://bootstrapmade.com/license/

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</head>

<style>

body{

background-image: url('https://images.pexels.com/photos/3184357/pexels-photo-3184357.jpeg?auto=compress&cs=tinysrgb&w=1260&h=750&dpr=1');

background-size: cover;

background-repeat:no-repeat;

}

</style

<body>

<!-- ======= Header ======= -->

<header id="header" class="fixed-top">

<div class="container d-flex align-items-center justify-content-between">

<h1 class="logo"><a href="index.html">Internet Bandwidth</a></h1>

<!-- Uncomment below if you prefer to use an image logo -->

<!-- <a href="index.html" class="logo"><img src="assets/img/logo.png" alt="" class="img-fluid"></a>-->

<nav id="navbar" class="navbar">

<ul>

<li><a href="{% url 'index1' %}">Home</a></li>

<li><a href="{% url 'userlogin' %}">user</a></li>

<li><a href="{% url 'adminlogin' %}">admin</a></li>

<li><a href="{% url 'userRegister' %}">register</a></li>

</nav><!-- .navbar -->

</div>

</header><!-- End Header -->

{% block content %}

{% endblock %}

<a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i class="bi bi-arrow-up-short"></i></a>

<!-- Vendor JS Files -->

<script src="{% static 'vendor/bootstrap/js/bootstrap.bundle.min.js' %}"></script>

<script src="{% static 'vendor/glightbox/js/glightbox.min.js' %}"></script>

<script src="{% static 'vendor/isotope-layout/isotope.pkgd.min.js' %}"></script>

<script src="{% static 'vendor/swiper/swiper-bundle.min.js' %}"></script>

<script src="{% static 'vendor/php-email-form/validate.js' %}"></script>

<!-- Template Main JS File -->

<script src="{% static 'js/main.js' %}"></script>

</body>

</html>

**Admin side admin\_base.html:**

{% load static %}

<!DOCTYPE html>

<html lang="en">

<head>

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<meta content="width=device-width, initial-scale=1.0" name="viewport">

<title>Internet Bandwidth</title>

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</head>

<body>

<!-- ======= Header ======= -->

<header id="header" class="fixed-top">

<div class="container d-flex align-items-center justify-content-between">

<h1 class="logo"><a href="#">Internet Bandwidth</a></h1>

<!-- Uncomment below if you prefer to use an image logo -->

<!-- <a href="index.html" class="logo"><img src="assets/img/logo.png" alt="" class="img-fluid"></a>-->

<nav id="navbar" class="navbar">

<ul>

<li><a href="{% url 'AdminHome' %}">Home</a></li>

<li><a href="{% url 'ViewRegisteredUsers' %}">userdata</a></li>

<li><a href="{% url 'mlresults' %}">ML Results</a></li>

<li><a href="{% url 'index1' %}">logout</a></li>

</nav><!-- .navbar -->

</div>

</header><!-- End Header -->

{% block content %}

{% endblock %}

<a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i class="bi bi-arrow-up-short"></i></a>

<!-- Vendor JS Files -->

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<script src="{% static 'vendor/isotope-layout/isotope.pkgd.min.js' %}"></script>

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<script src="{% static 'vendor/php-email-form/validate.js' %}"></script>

<!-- Template Main JS File -->

<script src="{% static 'js/main.js' %}"></script>

</body>

</html>

**Admin side view\_registered\_users.html:**

{%extends 'admins/AdminHome.html'%}

{% block content %}

<section id="intro">

<div class="container intro-text">

<p>

<h3 align="center" style="color:white;">View RegisterUser Details</h3></p><br>

<table class="table table-bordered bg-light text-dark">

<thead>

<tr style="color:red;font-weight:bold;">

<th>S.No</th>

<th>Name</th>

<th>Login ID</th>

<th>Mobile</th>

<th>Email</th>

<th>Locality</th>

<th>Status</th>

<th>Activate</th>

</tr>

</thead>

<tbody>

{% for i in data %}

<tr style="color:red;font-weight:bold;">

<td>{{forloop.counter}}</td>

<td>{{i.name}}</td>

<td>{{i.loginid}}</td>

<td>{{i.mobile}}</td>

<td>{{i.email}}</td>

<td>{{i.locality}}</td>

<td>{{i.status}}</td>

{% if i.status == 'waiting' %}

<td><a class="btn-link" href="/AdminActivaUsers/?uid={{ i.id }}"

style="color:DARKBLUE">Activate</a></td>

{% else %}

<td> Activated</td>

{% endif %}

</tr>

{% endfor %}

</tbody>

</table>

</div>

{% endblock %}