**SOURCE CODE**

**User side views.py**

from django.shortcuts import render, HttpResponse

from .forms import UserRegistrationForm

from django.contrib import messages

from .models import UserRegistrationModel

from users.utility.process\_ml import Algorithms

import numpy as np

algo = Algorithms()

# Create your views here.

def UserRegisterActions(request):

if request.method == 'POST':

form = UserRegistrationForm(request.POST)

if form.is\_valid():

print('Data is Valid')

form.save()

messages.success(request, 'You have been successfully registered')

form = UserRegistrationForm()

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

else:

messages.success(request, 'Email or Mobile Already Existed')

print("Invalid form")

else:

form = UserRegistrationForm()

return render(request, 'register.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 has not been activated by Admin.')

return render(request, 'user.html')

except Exception as e:

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

pass

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

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

def UserHome(request):

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

def logout(request):

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

# RF

def random\_forest(request):

prec, recall, f1 = algo.calc\_random\_forest\_Classifier()

return render(request, "users/RF.html", {'prec': prec, 'recall': recall, 'f1': f1})

# NB

def navie\_bayes(request):

prec, recall, f1 = algo.calc\_naive\_bayes\_Classifier()

print(f1)

return render(request, "users/navie\_bayes.html", {'prec': prec, 'recall': recall, 'f1': f1})

# SVM

def svm(request):

prec, recall, f1 = algo.calc\_support\_vector\_machine\_Classifier()

return render(request, "users/svm.html", {'prec': prec, 'recall': recall, 'f1': f1})

def logistic\_regression(request):

prec, recall, f1 = algo.calc\_logistic\_Regression()

return render(request, "users/LR.html", {'prec': prec, 'recall': recall, 'f1': f1})

def DT(request):

prec, recall, f1 = algo.calc\_DT\_Classifier()

return render(request, "users/DT.html", {'prec': prec, 'recall': recall, 'f1': f1})

def KNN(request):

prec, recall, f1 = algo.calc\_KNN\_Classifier()

return render(request, "users/KNN.html", {'prec': prec, 'recall': recall, 'f1': f1})

def predict(request):

if request.method == 'POST':

No\_of\_reviews = int(request.POST.get('No\_of\_reviews'))

No\_of\_ingredients = int(request.POST.get('No\_of\_ ingredients'))

No\_of\_servings = int(request.POST.get('No\_of\_servings'))

No\_of\_instructions = int(request.POST.get('No\_of\_instructions'))

test\_set = [No\_of\_reviews, No\_of\_ingredients,

No\_of\_servings, No\_of\_instructions]

result = algo.test\_userInput(test\_set)

if result[0] == 1:

msg = 'Good'

else:

msg = "Bad"

return render(request, "users/predict.html", {'result': msg})

else:

return render(request, "users/predict.html")

**Register.html:**

{% extends 'base.html' %}

{% block title %}Register User{% endblock title %}

{% block register %} active {% endblock register %}

{% block container %}

<!-- ======= Contact Section ======= -->

<section id="contact" class="contact">

<div class="container">

<!-- <div class="col-lg-6 mt-5 mt-lg-0" align="center"> -->

<div class="card col-md-6 offset-md-3 mt-5">

<div class="card-title">

<div class="text-center p-3 ">

<!-- <h5 class="card-title text-center"><i class="bi bi-person-circle" style="font-size: 60px;"></i></h5> -->

<h2> Register</h2>

</div>

</div>

<div class="card-body">

<form action="{% url 'user\_register' %}" method="post" role="form" class="php-email-form">

<legend align="center">

<svg xmlns="http://www.w3.org/2000/svg" width="80" height="80" fill="currentColor" class="bi bi-person-plus" viewBox="0 0 16 16">

<path d="M6 8a3 3 0 1 0 0-6 3 3 0 0 0 0 6zm2-3a2 2 0 1 1-4 0 2 2 0 0 1 4 0zm4 8c0 1-1 1-1 1H1s-1 0-1-1 1-4 6-4 6 3 6 4zm-1-.004c-.001-.246-.154-.986-.832-1.664C9.516 10.68 8.289 10 6 10c-2.29 0-3.516.68-4.168 1.332-.678.678-.83 1.418-.832 1.664h10z"/>

<path fill-rule="evenodd" d="M13.5 5a.5.5 0 0 1 .5.5V7h1.5a.5.5 0 0 1 0 1H14v1.5a.5.5 0 0 1-1 0V8h-1.5a.5.5 0 0 1 0-1H13V5.5a.5.5 0 0 1 .5-.5z"/>

</svg>

</legend>

{% csrf\_token %}

{{ form.as\_p }}

<!-- <div class="text-center"><button type="submit">Send Message</button></div> -->

<div class="mt-2 text-center pb-4">

<input class="btn btn-lg btn-success text-white" type="submit" value="Submit">

<input class="btn btn-lg btn-dark text-white" type="reset" value="Reset">

</div>

</form>

</div>

{% if messages %}

<ul class="messages">

{% for message in messages %}

<li{% if message.tags %} class="{{ message.tags }}" {% endif %}>{{ message }}</li>

{% endfor %}

</ul>

{% endif %}

</div>

</div>

<!-- </div> -->

</section><!-- End Contact Section -->

{% endblock container %}

**Base.html:**

<!DOCTYPE html>

{% load static %}

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

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

<title>Document</title>

<!-- Bootstrap Css -->

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

<!-- Custom Css -->

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

</head>

<body>

<!-- Start Header -->

<nav class="navbar navbar-expand-lg bg-primary">

<div class="container-fluid">

<a class="navbar-brand text-white" href="/">DRUG</a>

<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarText"

aria-controls="navbarText" aria-expanded="false" aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarText">

<ul class="navbar-nav me-auto mb-2 mb-lg-0">

<li class="nav-item">

<a class="nav-link text-white {% block home %} {% endblock %}" aria-current="page" href="/">Home</a>

</li>

<li class="nav-item">

<a class="nav-link text-white {% block user %} {% endblock %}" href="{% url 'user\_login' %}">User</a>

</li>

<li class="nav-item">

<a class="nav-link text-white {% block admin %} {% endblock %}" href="{% url 'admin\_login' %}">Admin</a>

</li>

</ul>

<span class="navbar-text">

<a href="{% url 'register' %}" class="btn btn-warning text-whitesmoke">Register</a>

</span>

</div>

</div>

</nav>

<!-- End Header -->

<!-- Start Content -->

<div class="container mb-5">

{% block content %} {% endblock %}

</div>

<!-- End Content -->

<!-- Start Footer -->

<nav class="navbar navbar-expand-lg bg-primary fixed-bottom mt-5">

<div class="container-fluid">

<a class="navbar-brand text-white" href="#">DRUG</a>

</div>

</nav>

<!-- End Footer -->

<!-- Bootstrap Js -->

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

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

</body>

</html>

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

<!DOCTYPE html>

<html lang="en">

{% load static %}

<head>

<meta charset="utf-8">

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

<title>{% block title %} {% endblock %}</title>

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

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

<!-- Favicons -->

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

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

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

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

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

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

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

<!-- Template Main CSS File -->

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

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

\* Template Name: KnightOne - v4.8.1

\* Template URL: https://bootstrapmade.com/knight-simple-one-page-bootstrap-template/

\* Author: BootstrapMade.com

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

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</head>

<body>

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

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

<div class="container-fluid">

<div class="row justify-content-center">

<div class="col-xl-9 d-flex align-items-center justify-content-lg-between">

<h1 class="logo me-auto me-lg-0"><a href="{% url 'admin\_home' %}">Machine Learning</a></h1>

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

<!-- <a href="index.html" class="logo me-auto me-lg-0"><img src="assets/img/logo.png" alt="" class="img-fluid"></a>-->

<nav id="navbar" class="navbar order-last order-lg-0">

<ul>

<li><a class="nav-link" href="{% url 'admin\_home' %}">Home</a></li>

<li><a class="nav-link {% block user\_list %} {% endblock %}"

href=" {% url 'user\_list' %}">User List</a></li>

<!-- <li><a class="nav-link" href=" {% url 'user' %}">{{ request.path }}</a></li> -->

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

<a href="{% url 'logout' %}" class="get-started-btn scrollto">Logout</a>

</div>

</div>

</div>

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

<!-- ======= Hero Section ======= -->

<!-- {% if request.path == '/' %}

<section id="hero" class="d-flex flex-column justify-content-center" style="margin-top:200px">

<div class="container">

<div class="row justify-content-center">

<div class="col-xl-8">

hdjkwenfdkad,nxamsxmsms,qasnkznnxsnkmnxsnlcx,

<h1> welcome to admin page</h1>

<a href="{% url 'register' %}" class="get-started-btn">Register</a>

</div>

</div>

</div>

</section>

{% endif %} -->

<main id="main">

{% block container %} {% endblock %}

</main>

<!-- ======= Footer ======= -->

<footer id="footer" style="background-color: #6c757d;">

<div class="container">

<h3>Machine Learning</h3>

<div class="social-links">

<a href="#" class="twitter"><i class="bx bxl-twitter"></i></a>

<a href="#" class="facebook"><i class="bx bxl-facebook"></i></a>

<a href="#" class="instagram"><i class="bx bxl-instagram"></i></a>

<a href="#" class="google-plus"><i class="bx bxl-skype"></i></a>

<a href="#" class="linkedin"><i class="bx bxl-linkedin"></i></a>

</div>

<div class="copyright">

&copy; <strong><span>2022 Alex Corporation</span></strong>. All Rights Reserved

</div>

<div class="credits">

<!-- All the links in the footer should remain intact. -->

<!-- You can delete the links only if you purchased the pro version. -->

<!-- Licensing information: https://bootstrapmade.com/license/ -->

<!-- Purchase the pro version with working PHP/AJAX contact form: https://bootstrapmade.com/knight-simple-one-page-bootstrap-template/ -->

Designed by <a href="https://bootstrapmade.com/">\*\*\*\*\*\*\*\*</a>

</div>

</div>

</footer><!-- End Footer -->

<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 'assets/vendor/purecounter/purecounter\_vanilla.js' %}"></script>

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

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

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

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

<!-- Template Main JS File -->

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

</body>

</html>

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

{% extends 'admins/admin\_base.html' %}

{% block title %} User List {% endblock title %}

{% block user\_list %} active {% endblock %}

{% block container %}

<!-- ======= Contact Section ======= -->

<section id="contact" class="contact">

<div class="container">

<h2>User List</h2>

<table class="table table-striped">

<thead>

<tr>

<th scope="col">S.no</th>

<th scope="col">Name</th>

<th scope="col">Username</th>

<th scope="col">Phone</th>

<th scope="col">Mail</th>

<th scope="col">Address</th>

<th scope="col">Status</th>

</tr>

</thead>

<tbody>

{% for user in data %}

<tr>

<th scope="row">{{ forloop.counter }}</th>

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

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

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

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

<td>{{ user.address }}</td>

<td>

<a href="/user\_activate/?uid={{ user.id }}">{{ user.status|title }}</a>

</td>

</tr>

{% endfor %}

</tbody>

</table>

</div>

<!-- </div> -->

</section><!-- End Contact Section -->

{% endblock %}