from django.shortcuts import render, redirect, get\_object\_or\_404

import requests

from .forms import HospitalForm

from .forms import LocationForm

from .models import Hospital

from .models import Location

import json

import hospital.settings as settings

from .models import Location, Hospital

def hospital\_create(request):

"""

hospital\_create view function renders the hospital\_form.html template # Docstring

"""

if request.method == 'POST':

form = HospitalForm(request.POST)

if form.is\_valid():

form.save()

return redirect('hospital\_list')

else:

form = HospitalForm()

return render(request, 'hospital/hospital\_form.html', {'form': form})

def hospital\_list(request):

"""

hospital\_list view function renders the hospital\_list.html template # Docstring

"""

hospitals = Hospital.objects.all()

return render(request, 'hospital/hospital\_list.html', {'hospitals': hospitals})

def hospital\_update(request, hospital\_id):

hospital = Hospital.objects.get(id=hospital\_id)

if request.method == 'POST':

form = HospitalForm(request.POST, instance=hospital)

if form.is\_valid():

form.save()

return redirect('hospital\_list')

else:

form = HospitalForm(instance=hospital)

return render(request, 'hospital/hospital\_form.html', {'form': form})

def driver\_page(request):

"""

driver\_page view function renders the driver\_page.html template # Docstring

"""

hospitals = Hospital.objects.all()

context = {'hospitals': hospitals}

return render(request, 'hospital/driver\_page.html', context)

def update\_hospital(request, pk):

"""

update\_hospital view function renders the update\_hospital.html template # Docstring

"""

# hospital = Hospital.objects.get(id=hospital\_id)

hospital = get\_object\_or\_404(Hospital, pk=pk)

if request.method == 'POST':

form = HospitalForm(request.POST, instance=hospital)

if form.is\_valid():

form.save()

return redirect('driver\_page')

else:

form = HospitalForm(instance=hospital)

context = {'form': form}

return render(request, 'hospital/update\_hospital.html', context)

def delete\_hospital(request, pk):

"""

delete\_hospital view function renders the delete\_hospital.html template # Docstring

"""

hospital = get\_object\_or\_404(Hospital, pk=pk)

hospital.delete()

return redirect('driver\_page')

def home(request):

return render(request, 'home.html')

def navigate\_to\_destination(request):

"""

navigate\_to\_destination view function renders the navigate\_to\_destination.html template # Docstring

"""

url = 'https://www.googleapis.com/geolocation/v1/geolocate'

params = {'key': settings.GOOGLE\_MAP}

# Send a POST request to the Geolocation API endpoint

response = requests.post(url, params=params)

# Parse the JSON response and extract the latitude and longitude coordinates

result = json.loads(response.text)

lat = result['location']['lat']

lng = result['location']['lng']

# Step 2: Use the Google Maps Directions API to generate turn-by-turn directions

# Set up the Directions API endpoint and parameters

url = 'https://maps.googleapis.com/maps/api/directions/json'

params = {

'origin': f'{lat},{lng}',

'destination': 'Bangalore, India',

'mode': 'driving',

'key': settings.GOOGLE\_MAP

}

# Send a GET request to the Directions API endpoint

response = requests.get(url, params=params)

# Parse the JSON response and extract the turn-by-turn directions

result = json.loads(response.text)

steps = result['routes'][0]['legs'][0]['steps']

# Step 3: Use a navigation app on the user's mobile device to display the directions

# Construct the navigation app URL and redirect the user to it

url = f'https://www.google.com/maps/dir/?api=1&origin={lat},{lng}&destination=Bangalore, India&travelmode=driving'

return redirect(url)

def add\_location(request):

if request.method == 'POST':

form = LocationForm(request.POST)

if form.is\_valid():

form.save()

return redirect('location\_list')

else:

form = LocationForm()

return render(request, 'location/add\_location.html', {'form': form})

def location\_list(request):

locations = Location.objects.all()

return render(request, 'location/location\_list.html', {'locations': locations})