import numpy as np

import os

from PIL import Image

from flask import Flask, request, render\_template, url\_for

from werkzeug.utils import secure\_filename, redirect

from gevent.pywsgi import WSGIServer

from keras.models import load\_model

from keras.preprocessing import image

from flask import send\_from\_directory

app = Flask(\_\_name\_\_)

UPLOAD\_FOLDER = 'F:\semester 7\ibm\SI-GuidedProject-29143-1667502003-main\SI-GuidedProject-29143-1667502003-main\Project Development Phase\Sprint 2\data'

app.config['UPLOAD\_FOLDER'] = UPLOAD\_FOLDER

model = load\_model("F:\semester 7\ibm\SI-GuidedProject-29143-1667502003-main\SI-GuidedProject-29143-1667502003-main\Project Development Phase\Sprint 2\project.h5")

@app.route("/")

def index():

return render\_template("index.html")

@app.route("/web",methods = ['GET','POST'])

def web():

if request.method == "POST":

f = request.files["image"]

filepath = secure\_filename(f.filename)

f.save(os.path.join(app.config['UPLOAD\_FOLDER'], filepath))

upload\_img = os.path.join(UPLOAD\_FOLDER, filepath)

img = Image.open(upload\_img).convert("L") # convert image to monochrome

img = img.resize((28, 28)) # resizing of input image

im2arr = np.array(img) # converting to image

im2arr = im2arr.reshape(1, 28, 28, 1) # reshaping according to our requirement

pred = model.predict(im2arr)

num = np.argmax(pred, axis=1) # printing our Labels

return render\_template('web.html',num=str(num[0]))

return render\_template('web.html')

if \_\_name\_\_ == "\_\_main\_\_":

app.run(debug = True)