Project Development Phase Sprint 3

Python Code:

```
from flask import Flask, render_template, request
from PIL import Image
import numpy as np
from tensorflow.keras.models import load_model
import tensorflow as tf
from flask import Flask
#You need to use following line [app Flask(__name__]
app = Flask(__name__,template_folder="templates")
model = load_model("models/mnistCNN.h5")
@app.route('/')
def upload_file():
 return render_template('index.html')
@app.route('/main')
def upload_file1():
 return render_template('main.html')
@app.route('/Recognize',methods = ['POST'])
def upload_image_file():
```

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if request.method == 'POST':
 img = Image.open(request.files['file'].stream).convert("L")
 img = img.resize((28,28))
 im2arr = np.array(img)
 im2arr = im2arr.reshape(1,28,28,1)
 y_pred = model.predict_classes(im2arr)
 print(y_pred)
if(y pred == 0):
 return render_template("0.html", showcase = str(y_pred))
elif(y_pred == 1):
 return render_template("1.html", showcase = str(y_pred))
elif(y_pred == 2):
 return render_template("2.html", showcase = str(y_pred))
elif(y_pred == 3):
 return render_template("3.html", showcase = str(y_pred))
elif(y_pred == 4):
 return render_template("4.html", showcase = str(y_pred))
elif(y_pred == 5):
 return render template("5.html", showcase = str(y pred))
elif(y_pred == 6):
 return render_template("6.html", showcase = str(y_pred))
elif(y_pred == 7):
 return render_template("7.html", showcase = str(y_pred))
elif(y_pred == 8):
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return render_template("8.html", showcase = str(y_pred))
else :
  return render_template("9.html", showcase = str(y_pred))

if __name__ == '__main__':
  app.run(host='0.0.0.0',port=8000,debug=True,threaded=False)
```