SPRINT - 3

APPLICATION

BUILDING

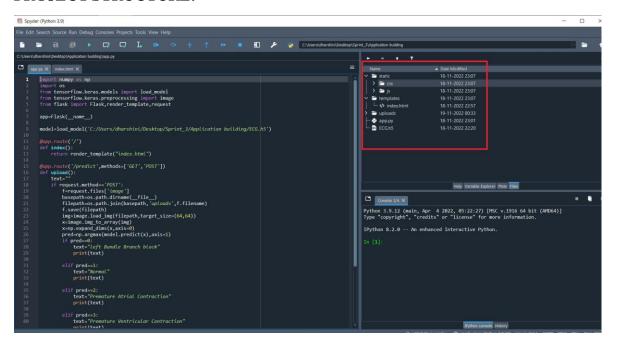
BUILD THE PYTHON CODE

Date	15 November 2022
Team ID	PNT2022TMID03593
Project Name	Project - Classification of Arrhythmia by Using
	Deep Learning with 2-D ECG Spectral
	ImageRepresentation
Sprint	3

TASK:

Build the Python code.

PROJECT STRUCTURE:



```
App.py:
import numpy as np
import os
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
from flask import Flask,render_template,request
app=Flask(__name___)
model=load_model('C:/Users/dharshini/Desktop/Sprint_3/Application building/ECG.h5')
@app.route('/')
def index():
   return render_template("index.html")
@app.route('/predict',methods=['GET','POST'])
def upload():
   text=""
   if request.method=='POST':
       f=request.files['image']
       basepath=os.path.dirname(_file_)
       filepath=os.path.join(basepath,'uploads',f.filename)
       f.save(filepath)
       img=image.load_img(filepath,target_size=(64,64))
       x=image.img_to_array(img)
       x=np.expand_dims(x,axis=0)
       pred=np.argmax(model.predict(x),axis=1)
       if pred==0:
```

```
text="left Bundle Branch
           block"print(text)
       elif pred==1:
           text="Normal"
           print(text)
       elif pred==2:
           text="Premature Atrial Contraction"
           print(text)
       elif pred==3:
           text="Premature Ventricular Contraction"
           print(text)
       elif pred==4:
           text="Right Bundle Branch
           Block"print(text)
       else:
           text="Ventricular
           Fibrillation"print(text)
   return text
if___name_=='_main_':
   app.run(debug=False)
```

APP.PY(SCREEN SHOT):

