SPRINT-3

APPLICATION BUILDING

HTML FILE

Date	21 November 2022
Team ID	PNT2022TMID03593
Project Name	Project - Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral ImageRepresentation
Sprint	3

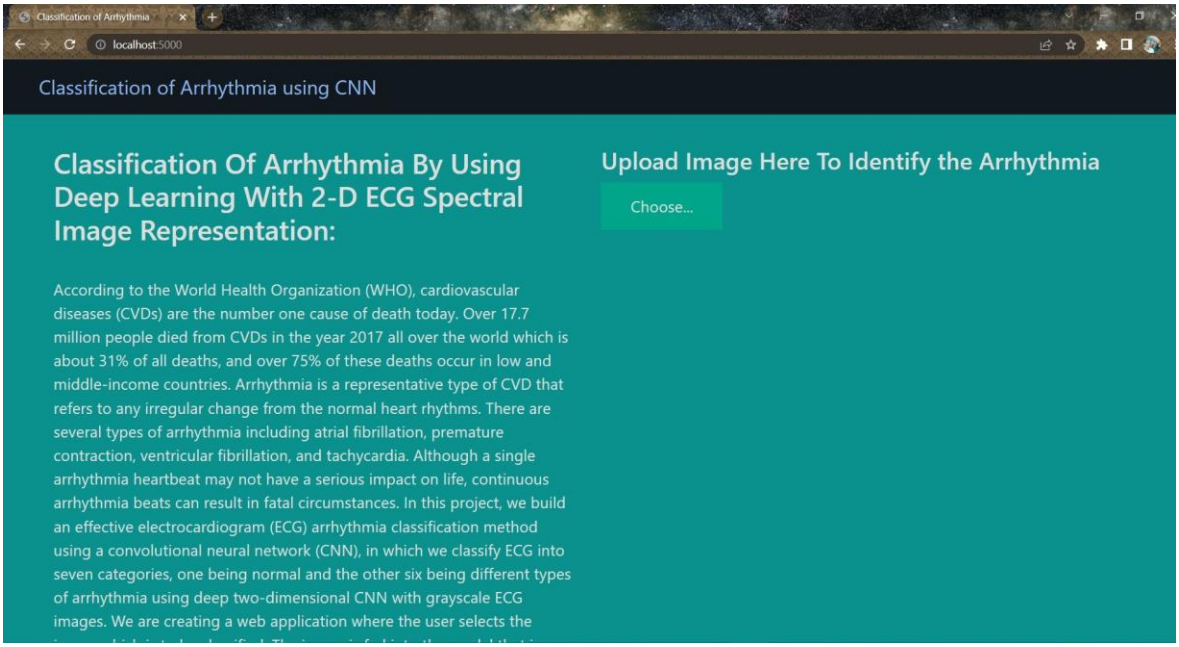
HTML CODE FOR HOME (INDEX PAGE):

```
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)
```

INDEX PAGE (SCREEN SHOT):



Classification of Arrhythmia

localhost:5000

Arrhythmias … Why?