

## Sprint - 3

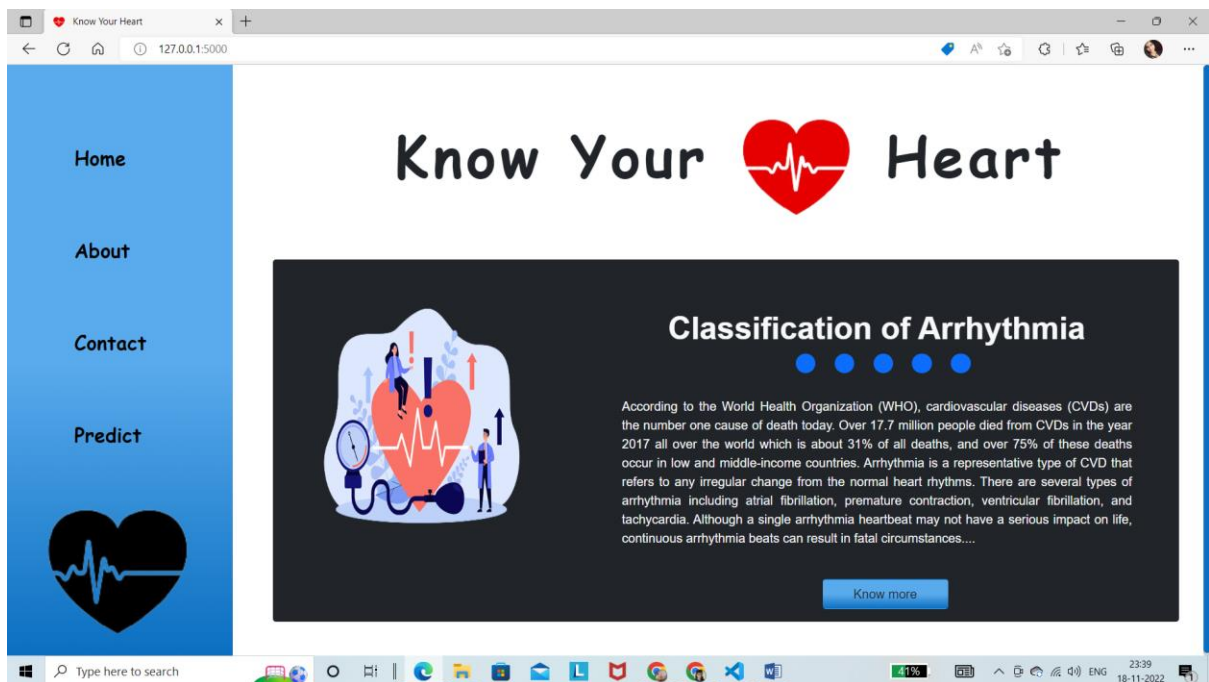
### Run the Application

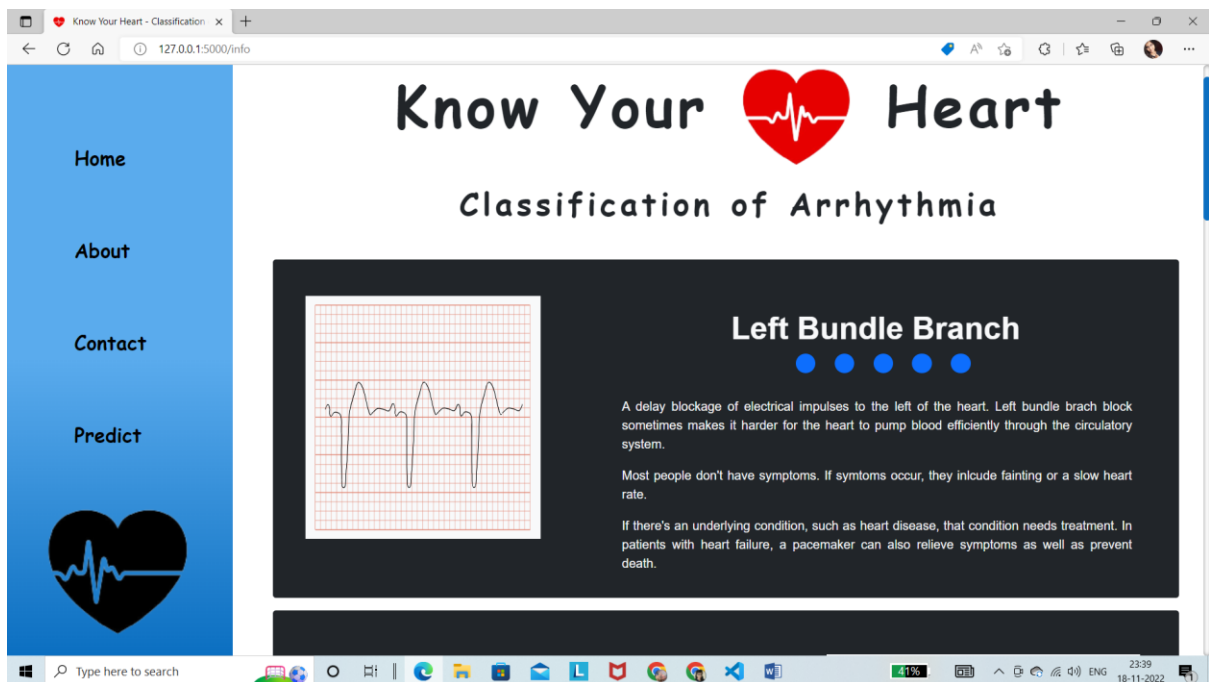
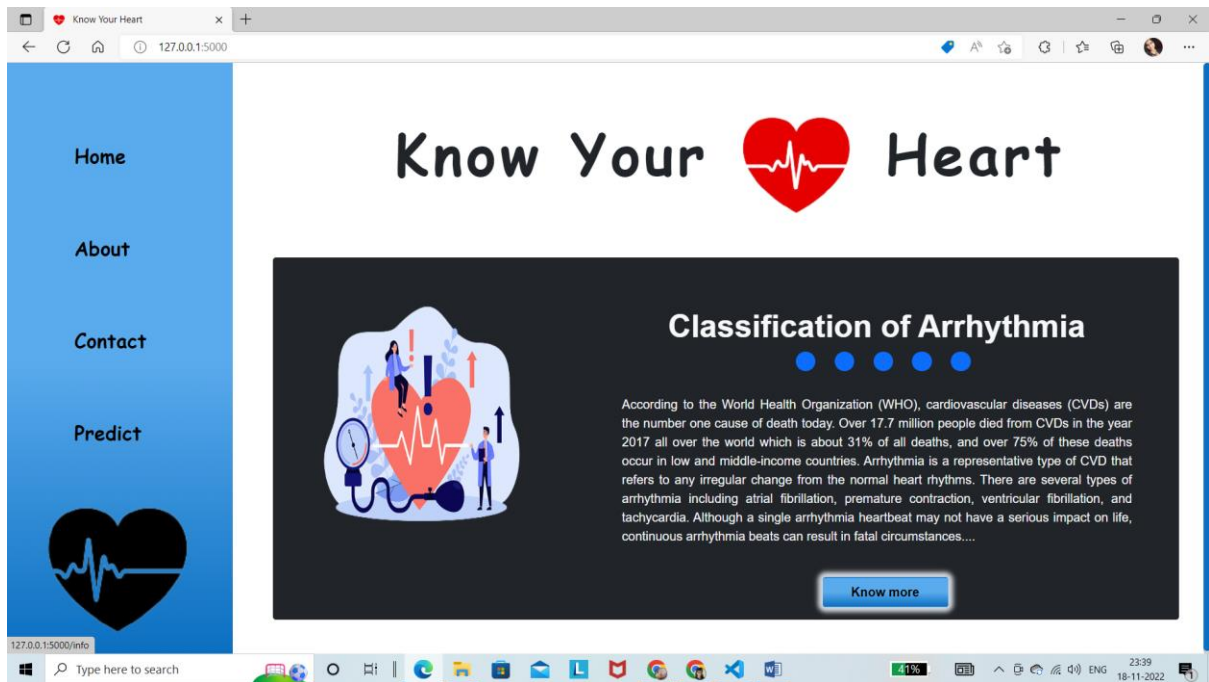
|              |  |
|--------------|--|
| Date         | 14 Nov 2022  |
| Team ID      | PNT2022TMID04852   |
| Project Name | Project - Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation |

### Run app.py

```
(venv) C:\Users\Lenovo\OneDrive\Documents\Python Scripts\Application Building>python app.py
2022-11-18 23:35:41.166589: I tensorflow/core/platform/cpu_feature_guard.cc:193] This TensorFlow binary is optimized with oneAPI Deep Neural N
etwork Library (oneDNN) to use the following CPU instructions in performance-critical operations: AVX AVX2
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
```

### Run the web application in the local host:





Know Your Heart - Classification

127.0.0.1:5000/info

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## Right Bundle Branch

Right bundle branch block is associated with structural changes from stretch or ischemia to the myocardium. It can also occur iatrogenically from certain common cardiac procedures, such as right heart catheterization.

Although there is no significant association with cardiovascular risk factors, the presence with cardiovascular risk factors, the presence of a right bundle branch block is a predictor of mortality in myocardial infarction, heart failure, and certain heart blocks.

In asymptomatic patients, isolated right bundle branch block typically does not need further evaluation.

V1

V6

rSR

qRs

## Normal

Note that the heart is beating in a regular sinus rhythm between 60-100 beats per minute (specifically 82 bpm).

All the important intervals on this recording are within normal ranges.

The normal ECG patterns seen in children differ considerably from those in adults.

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Know Your Heart - Classification

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## Premature Atrial Contraction

usually, premature atrial contraction have no clear cause and no health risks. In most cases, premature atrial contractions aren't a sign of heart disease and just happen naturally.

But some people who have PACs turn out to have related heart conditions, such as Cardiomyopathy (a weakened heart muscle) Coronary heart disease (fatty deposits in you blood vessels).

1s 2s 3s 4s

## Premature Ventricular Contractions

Extra, abnormal heartbeats that begin in one of the heart's two lower chambers.

Premature ventricular contractions (PVCs) occur in most people at some point. Causes may include certain medication, alcohol, some illegal drugs, caffeine, tobacco, exercise or anxiety.

PVCs often cause no symptoms. When symptoms do occur, they feel like a flip-flop or skipped-beat sensation in the chest.

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