Project Flow

Date	11 November 2022
Team ID	PNT2022TMID26984
Project Name	Project - Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation

Once the user enters the web application, he/she registers/logs in. Then the user interacts with a User interface to upload the image. The uploaded image is analyzed by the built, trained, tested, and integrated model. Once the model analyses the uploaded image, the prediction is showcased on the UI.

To accomplish this, we have to complete all the activities and tasks listed below

- ➔ Data Collection
  - Collect the dataset from resources
- ➔ Data Preprocessing
  - Import the ImageDataGenerator library
  - Configure ImageDataGenerator class
  - Apply ImageDataGenerator functionality to Trainset and Testset
- ➔ Model Building
  - Import the model building Libraries
  - Initializing the model
  - Adding Input Layer
  - Adding Hidden Layer
  - Adding Output Layer
  - Configure the Learning Process
  - Training and testing the model
  - Optimize the Model
  - Save the Model
- ➔ Application Building
  - Create an HTML file
  - Build Python Code
  - Interface in Flask
- ➔ Model Deployment
  - The application built is being deployed in IBM Cloud.