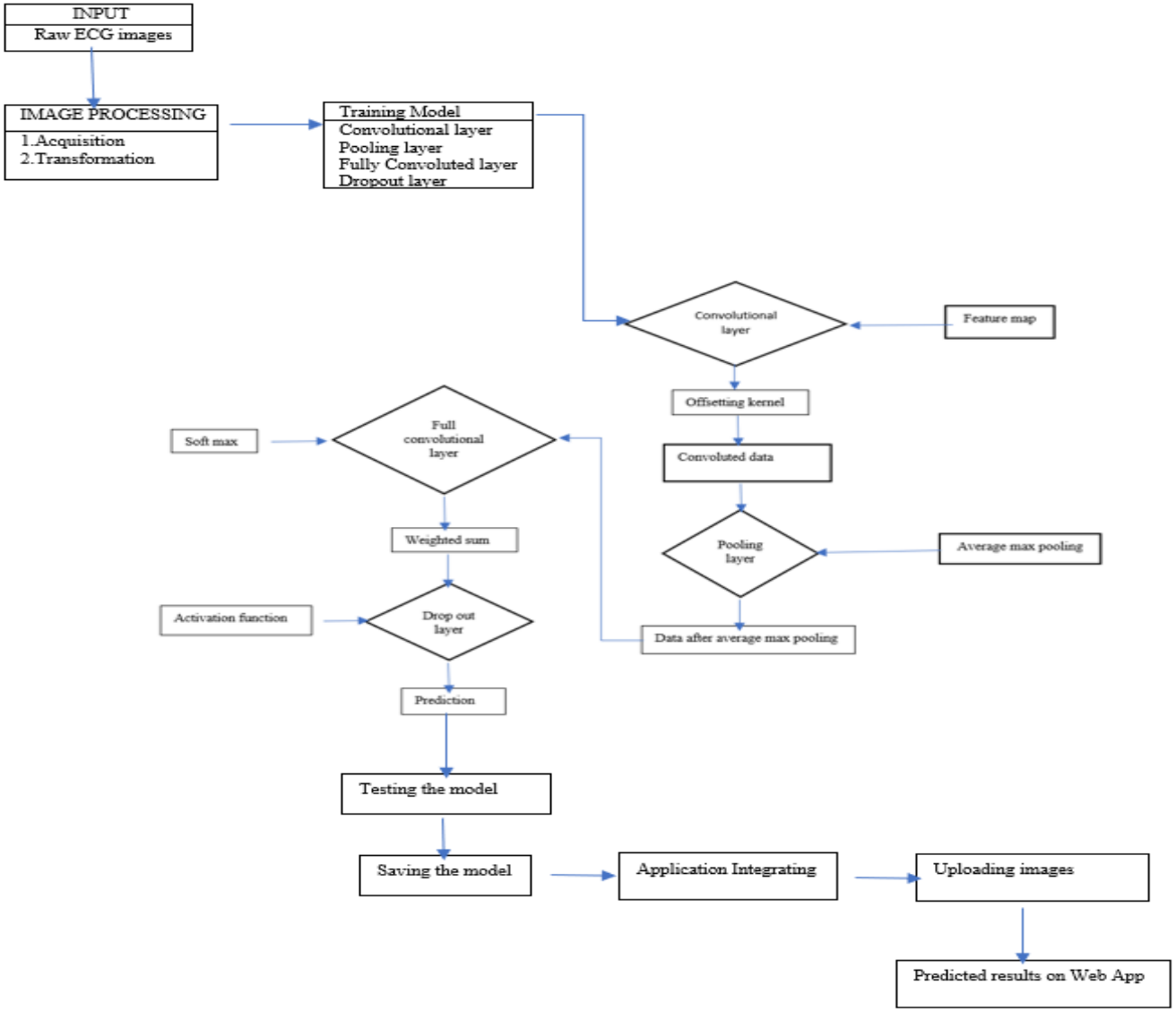
Project Design Phase-II
Data Flow Diagram & User Stories

Date	18 October 2022
Team ID	PNT2022TMID38553
Project Name	Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.


INPUT
Raw ECG images
IMAGE PROCESSING
1.Acquisition
2.Transformation
Training Model
Convolutional layer
Pooling layer
Fully Convoluted layer
Dropout layer
Convolutional layer
Feature map
Offsetting kernel
Convoluted data
Pooling layer
Average max pooling
Data after average max pooling
Full convolutional layer
Soft max
Weighted sum
Drop out layer
Activation function
Prediction
Testing the model
Saving the model
Application Integrating
Uploading images
Predicted results on Web App

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web user)	Registration	USN-1	As a web user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a web user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a web user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a web user, I can register for the application through Gmail	I can register & access the dashboard with Gmail	Medium	Sprint-1
	Login	USN-5	As a web user, I can log into the application by entering email & password	I can access my account	High	Sprint-1
	Dashboard	USN-6	As a web user, I can view the picture on the webpage once I uploaded it.	I get and “Upload Successful” pop-up	Medium	Sprint-1
		USN-7	As a web user,I can view the results for the image I uploaded.	Result is displayed.	High	Sprint-1
Customer Care Executive	Login	USN-1	As a Customer Care Executive, I can login with my credentials.	I can access my account	High	Sprint-1
	Dashboard	USN-2	As a Customer Care Executive, I can see all the information, I can view the picture on the webpage once I uploaded it	I get and “Upload Successful” pop-up	High	Sprint-1
	Responsiblities	USN-3	As a Customer Care Executive, I am able to resolve the customers’ complaints.	Manage and resolve complaints	High	Sprint-1
Administrator	Login	USN-1	As an administartor, I can login with my credentials.	I can access my account/dashboard	High	Sprint-1
	Dashboard	USN-2	As an administartor, I can see all the information, I can view the picture on the webpage once I uploaded it.	I can see all the information in the dashboard.	Low	Sprint-2
	Responsibilities	USN-3	As an administrator, I can implement security measures and review web content	I can implement security measures.	High	Sprint-1