Project Design Phase-II
Data Flow Diagram & User Stories

Date	23 October 2022
Team ID	PNT2022TMID52880
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.

Doctor → ECG signal → User Interface → Data pre-processing → Feature Selection → Conversion to images → Deep Neural network → Result
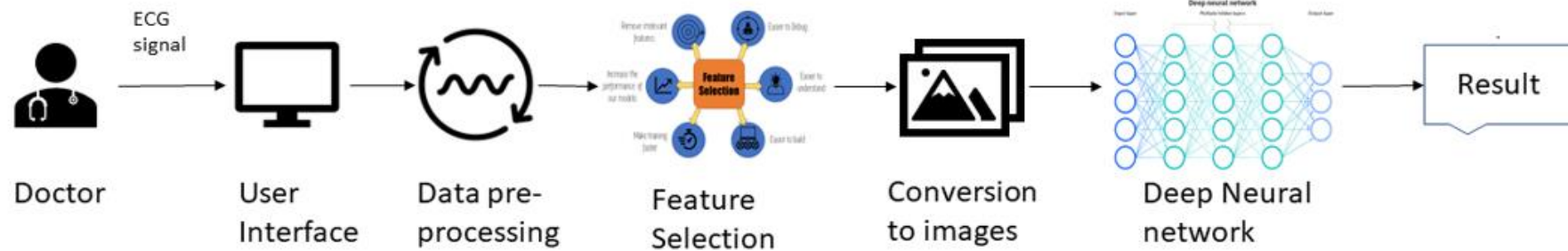
Different Types of Beats
- **Normal beat**
- **Premature ventricular contraction beat**
- **Paced beat**
- **Right bundle branch block beat**
- **Left bundle branch block beat**
- **Atrial premature contraction beat**
- **Ventricular flutter wave beat**
- **Ventricular escape beat**

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 (Mobile user)	Registration	USN-1	As a 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 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 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 user, I can register for the application through Gmail	Access gmail and dashboard	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	Enter and access with password and email	High	Sprint-1
	Dashboard	USN-6	As a web user grid format which	Seeing information	low	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
			makes it easy to see	through dashboard		
Customer (Web user)	Registration	USN-1	As a 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
	Conformation	USN-2	As a 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 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 user, I can register for the application through Gmail	Register access with gmail	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	Access the dashboard with email and passwords	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer care	Login	USN-1	I can easily laid out information	Seeing information with dashboard	Low	Sprint-1
	Dashboard	USN-2	Team of representatives offering customer support	Offer support for customer	High	Sprint-2
	Responsibilities	USN-3	Revolve customer compliants	Resolve customer complaints and bring to attention	High	Sprint-1
User Type	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Acceptance criteria**	**Priority**	**Release**
Administrator						
hospital staff	User Registration	USN-1	Registration to the respective hospital through the Hospitals website by entering your name,age, phone number and address	I can get the details of thelist of doctors available based on their specialty	High	Sprint-1
	Registration Options	USN-2	As a staff, I can register for the application through the hospital's	I can register & access the Healthcare Panel	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
	available		official website	which prompts reminders about your heart rhythms		
	Login	USN-3	As a Healthcare staff, I can log in to the application by entering the right credentials like phone number and password		Low	Sprint-1
	Dashboard	USN-4	Enables healthcare professionals to access important patient statistics in real-time		High	Sprint-1