# **Project Planning Phase**

## **Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)**

Date	25 October 2022
Team ID	PNT2022TMID09656
Project Name	Classification Of Arrhythmia By Using Deep Learning With 2-D ECG Spectral Image Representation
Maximum Marks	8 Marks

## **Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Download The Dataset	USN-1	We can download the Dataset contains Six classes	1	Low	Bharathidasan.R Muthamizhan.A
Sprint-1	Import The ImageDataGenerator Library	USN-2	We can import ImageDataGenerator	1	Low	Bharathidasan.R Muthamizhan.A
Sprint-1	Configure ImageDataGenerator class	USN-3	We can configure the ImageDataGenerator class	1	Low	Vignesh Kumar.R Vetriselvan.PL Muthamizhan.A

Sprint-2	Apply the	USN-4	We can apply ImageDataGenerator to	2	Medium	Vetriselvan.PL
	ImageDataGenerator		train dataset			Bharathidasan.R

Sprint	Functional Requirement (Epic)	User Story Number	ory		Priority	Team Members
	functionality to Trainset and Dataset					Muthamizhan.A
Sprint-1	Import Libraries	USN-5	We can import required Libraries	1	Low	Muthamizhan.A
Sprint-1	Initialize the Model	USN-6	Initializing the Image recognition model	2	Medium	Vignesh Kumar.R Bharathidasan.R
Sprint-4	Adding CNN layer	USN-7	We can add Convolutional Neural Network(CNN) used for image/object recognition and classification	4	High	Vignesh Kumar.R Muthamizhan.A
Sprint-4	Adding Dense Layer	USN-8	We can add Dense Layer in which each neuron receives input from all the neurons of previous layer	4	High	Vignesh Kumar.R Vetriselvan.PL Muthamizhan.A
Sprint-4	Configure The Learning Process	USN-9	We can configure The Learning process which is a method, mathematical logic or algorithm that improves the network's performance and/or training time.	4	High	Vignesh Kumar.R Vetriselvan.PL Bharathidasan.R Muthamizhan.A

Sprint-3	Train the Model	USN-10	We can train our model with our image dataset. fit_generator functions used to train a deep learning neural network	3	High	Vignesh Kumar.R Muthamizhan.A
Sprint-1	Save the Model	USN-11	We can save The model with .h5 extension	2	Medium	Bharathidasan.R Muthamizhan.A
Sprint-2	Test the model	USN-12	We can Test the model through Loaded necessary libraries, the saved model	2	Medium	Vignesh Kumar.R Bharathidasan.R
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Create Html files	USN-13	We use HTML to create the front end part of the web page.	3	High	Vignesh Kumar.R Vetriselvan.PL
Sprint-4	Build Python code	USN-14	We build the flask file 'app.py' which is a web framework written in python for server-side scripting.	4	High	Bharathidasan.R Muthamizhan.A
Sprint-1	Run the App	USN-15	We can run the App	2	Medium	Vignesh Kumar.R Muthamizhan.A
Sprint-2	Register IBM Cloud	USN-16	We can register IBM Cloud	2	Medium	Vignesh Kumar.R Muthamizhan.A
Sprint-3	IBM	USN-17	We can Train Out model on IBM	3	High	Vignesh Kumar.R Muthamizhan.A

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	5 Days	24 Oct 2022	28 Oct 2022	20	28 Oct 2022
Sprint-2	20	5 Days	30 Oct 2022	04 Nov 2022	20	04 Nov 2022
Sprint-3	20	5 Days	06 Nov 2022	11 Nov 2022	20	11 Nov 2022
Sprint-4	20	5 Days	13 Nov 2022	18 Nov 2022	20	18 Nov 2022

## **Velocity:**

To calculate the team's average velocity (AV) per iteration unit

$$Av =$$
\_\_\_\_\_Sprint Velocity duration

Where,

**Average Velocity** - Story points per day

**Sprint duration** - Number of days (Duration) for Sprints

**Velocity** - Points per Sprint

$$Av = \frac{20}{5} = 5$$

Average Velocity is 4 points per Sprint

#### **Burndown Chart:**

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum . However, burn down charts can be applied to any project containing measurable progress over time.

#### **Burndown Chart**

