Project Planning Phase

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

Date	28 October 2022
Team ID	PNT2022TMID15268
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 will download the Dataset contains Six classes	2	Low	Harish
Sprint-1	Import The Image Data Generator Library	USN-2	We will import Image Data Generator	2	Low	Harish
Sprint-1	Configure Image Data Generator class	USN-3	We will configure the Image Data Generator class	6	Medium	Harish
Sprint-1	Apply the Image Data Generator functionality to Train Dataset	USN-4	We will apply Image Data Generator to train dataset	10	High	Harish

Sprint	**Functional Requirement (Epic)**	User **Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team Members**
Sprint-2	Import Libraries	USN-5	We will import required Libraries	1	Low	Harish
Sprint-2	Initialize the Model	USN-6	Initializing the Image recognition model	1	Medium	Harish
Sprint-2	Adding CNN layer	USN-7	We will add Convolutional Neural Network (CNN) used for image/object recognition and classification	4	High	Harish

Sprint-2	Adding Dense Layer	USN-8	We will add Dense Layer in which each neuron receives input from all the neurons of previous layer	4	High	Harish
Sprint-2	Configure The Learning Process	USN-9	We will configure The Learning process which is a method, mathematical logic or algorithm that improves the network's performance and/or training time.	2	Medium	Harish
Sprint-2	Train the Model	USN-10	We will train our model with our image dataset. Fit generator functions used to train a deep learning neural network	4	High	Harish
Sprint-2	Save the Model	USN-11	We will save The model with .h5 extension	2	Medium	Harish
Sprint-2	Test the model	USN-12	We will Test the model through Loaded necessary libraries, the saved model	2	Medium	Harish

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.	8	High	Manimaran
Sprint-3	Build Python code	USN-14	We build the flask file ‘app.py’ which is a web framework written in python for server-side scripting.	8	High	Bharath Veerakumar
Sprint-3	Run the App	USN-15	We can run the App	4	Medium	Gowthaman
Sprint-4	Register IBM Cloud	USN-16	We can register IBM Cloud	2	Medium	Gowthaman
Sprint-4	Train the model on IBM	USN-17	We can Train Out model on IBM	5	High	Gowthaman

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 ReleaseDate (Actual)
Sprint-1	20	6 Days	24Oct2022	29 Oct2022	20	29 Oct 2022
Sprint-2	20	6 Days	31Oct2022	05Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

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

$$Av = \frac{Velocity}{Sprint\ duration}$$

Where

Average Velocity - Story points per day
Sprint duration - Number of days (Duration) for Sprints
Velocity - Points per Sprint

A=20/6= 3.3

Average velocity is 3.3 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.