

Project Planning Phase

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

Date	28 October 2022
Team ID	PNT2022TMID26020
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	Ajay.D, Madheshwaran. R
Sprint-1	Import The Image Data Generator Library	USN-2	We will import Image Data Generator	1	Low	Logesh.D, Rithick Roy.A.S
Sprint-1	Configure Image Data Generator class	USN-3	We will configure the Image Data Generator class	2	Low	Ajay.D, Logesh.D, Rithick Roy.A.S
Sprint-2	Apply the Image Data Generator functionality to Trainset and Dataset	USN-4	We will apply Image Data Generator to train dataset	2	Medium	Madheshwaran. R, Ajay.D

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	Madheshwaran.R Logesh.D
Sprint-2	Initialize the Model	USN-6	Initializing the Image recognition model	2	Medium	Rithick Roy.A.S, Logesh.D,
Sprint-4	Adding CNN layer	USN-7	We will add Convolutional Neural Network (CNN) used for image/object recognition and classification	4	High	Ajay.D, Madheshwaran.R

Sprint-4	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	Rithick Roy.A.S, Ajay.D, Madheshwaran.R
Sprint-3	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.	3	Medium	Logesh.D Ajay.D, Madheshwaran.R
Sprint-4	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	Madheshwaran.R, Logesh.D
Sprint-4	Save the Model	USN-11	We will save The model with .h5 extension	2	Medium	Ajay.D, Rithick Roy.A.S
Sprint-4	Test the model	USN-12	We will Test the model through Loaded necessary libraries, the saved model	3	Medium	Madheshwaran.R, Logesh.D

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	Ajay.D, Logesh.D
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.	4	High	Madheshwaran. R, Rithick Roy.A.S
Sprint-4	Run the App	USN-15	We can run the App	3	Medium	Ajay.D, Madheshwaran.R
Sprint-1	Register IBM Cloud	USN-16	We can register IBM Cloud	2	Medium	Madheshwaran.R, Logesh.D, Ajay.D, Rithick Roy.A.S
Sprint-3	Train the model on IBM	USN-17	We can Train Out model on IBM	3	High	Logesh.D, Madheshwaran.R, Ajay.D

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	24Oct2022	29 Oct 2022	20	02 Nov 2022
Sprint-2	20	5 Days	30Oct2022	04 Nov 2022	20	06 Nov 2022
Sprint-3	20	5 Days	06Nov 2022	10 Nov 2022	20	11 Nov 2022
Sprint-4	20	5 Days	13Nov 2022	18 Nov 2022	20	22 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

$$A=20/5= 4$$

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:

