Project Planning Phase

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

Date	25 November 2022
Team ID	PNT2022TMID34634
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	4
Sprint-1	Import The ImageDataGenerator Library	USN-2	We can import ImageDataGenerator	1	Low	4
Sprint-1	Configure ImageDataGenerator class	USN-3	We can configure the ImageDataGenerator class	1	Low	4
Sprint-2	Apply the ImageDataGenerator	USN-4	We can apply ImageDataGenerator to train dataset	2	Medium	4

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
	functionality to Trainset and Dataset					
Sprint-1	Import Libraries	USN-5	We can import required Libraries	1	Low	4
Sprint-1	Initialize the Model	USN-6	Initializing the Image recognition model	2	Medium	4
Sprint-4	Adding CNN layer	USN-7	We can add Convolutional Neural Network(CNN) used for image/object recognition and classification	4	High	4
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	4
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	4
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	4
Sprint-1	Save the Model	USN-11	We can save The model with .h5 extension	2	Medium	4
Sprint-2	Test the model	USN-12	We can Test the model through Loaded necessary libraries, the saved model	2	Medium	4

Sprint	Functional	User	User Story / Task	Story	Priority	Team Members
	Requirement (Epic)	Story		Points		
		Number				
Sprint-3	Create Html files	USN-13	We use HTML to create the front end	3	High	4
			part of the web page.			
Sprint-4	Build Python code	USN-14	We build the flask file 'app.py' which is	4	High	4
			a web framework written in python for			
			server-side scripting.			
Sprint-1	Run the App	USN-15	We can run the App	2	Medium	4
Sprint-2	Register IBM Cloud	USN-16	We can register IBM Cloud	2	Medium	4
Sprint-3	Train the model on	USN-17	We can Train Out model on IBM	3	High	4
	IBM					

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	4 Days	15 Nov 2022	18 Nov 2022	20	19 Nov 2022
Sprint-2	20	4 Days	15 Nov 2022	18 Nov 2022	20	19 Nov 2022
Sprint-3	20	7 Days	19 Nov 2022	25 Nov 2022	20	25 Nov 2022
Sprint-4	20	7 Days	19 Nov 2022	18 Nov 2022	20	25 Nov 2022

Velocity:

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

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

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

