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

Date	18 October 2022
Team ID	PNT2022TMID02786
Project Name	Project - 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	Dataset collection	NIL	Task: Dataset Collection for Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation	2	High	1
Sprint-1	Image Pre-processing	NIL	Task: Image Pre-processing i.e., Configure the Image width, height, horizontal flip, vertical flip, rotates via the rotation range, brightness via the brightness range, zooms via the zoom range.	1	High	1
Sprint-2	Model Building	NIL	Task: the augmented and pre-processed image data, Let's begin our model building, this activity includes the following steps. i. Import the model building Libraries ii. Initializing the model iii. Adding CNN Layers iv. Adding Hidden Layer v. Adding Output Layer vi. Configure the Learning Process vii. Training and testing the model viii. Saving the model	2	High	2

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Application Building	NIL	Task: building a web application that is integrated into the model we built	2	Medium	2
Sprint-3	Enter into the application	USN-1	As a user, I can enter into the application using click link	1	High	
Sprint-3	Upload an image	USN-2	As a user, I can upload an image by clicking upload button then select my image after clicking submit button.	0	High	
Sprint-3	Predict the result	USN-3	As a user, I can predict the result by clicking predict button	0	High	
Sprint-4	Train the model on IBM	NIL	Train the model on IBM	2	High	3

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	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Burndown Chart:

A burn down 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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts