PROJECT PLANNING PHASE

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	16 November 2022			
Team ID	PNT2022TMID18693			
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	Dataset Collection	USN-1	Collect the dataset from the sources available in IBM	10	High	Kaavya Lakshmanan Agallya A N Diloshaa Sri R Hiruthik K Jawahar R
Sprint-2	Image Preprocessing	USN-2	Remove noise present in the images collected and perform data pre-processing	10	High	Kaavya Lakshmanan Agallya A N Diloshaa Sri R Hiruthik K Jawahar R
Sprint-2	Build the CNN Model	USN-3	Identify the appropriate layers required for the model and determine the model parameters	2	High	Kaavya Lakshmanan Agallya A N Diloshaa Sri R Hiruthik K Jawahar R

Sprint-2	Configure the model	USN-4	Perform model configuration by compiling it and implement techniques for loss reduction	5	Medium	Kaavya Lakshmanan Agallya A N Diloshaa Sri R Hiruthik K Jawahar R
Sprint-2	Train, test and validate	USN-5	Initiate model training phase, later based on model and validation loss values, start test phase	13	High	Kaavya Lakshmanan Agallya A N Diloshaa Sri R Hiruthik K Jawahar R
Sprint-3	Register for IBM Cloud	USN-6	Set up IBM Watson Assistant with Cloud Service	2	High	Kaavya Lakshmanan Agallya A N Diloshaa Sri R Hiruthik K Jawahar R
Sprint-4	Develop the web interface using Flask	USN-7	Design a UI for the web interface, with login, registration and input adding features	5	High	Kaavya Lakshmanan Agallya A N Diloshaa Sri R Hiruthik K Jawahar R
Sprint-4	Perform server-side scripting	USN-8	Develop an application using python for back-end functions	13	Medium	Kaavya Lakshmanan Agallya A N Diloshaa Sri R Hiruthik K Jawahar R

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	28 Oct 2022	20	28 Oct 2022
Sprint-2	20	6 Days	30 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	06 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	13 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imagine we have a 6-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)

$$AV = sprint duration / velocity = 20/6 = 3.333$$

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.

