PROJECT PLANNING PHASE

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

Date	18October 2022
Team ID	PNT2022TMID03100
Project Name	Classification of Arrhythmia by Using DeepLearning 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 for classification from sources available on the internet.	10	High	Jeya Sundari Jothilakshmi M Ahash Ram R L Buvanesh K K
Sprint-1	Image Preprocessing	USN-2	Remove noise present in the images collected and perform data pre-processing	10	High	Jeya Sundari Jothilakshmi M Ahash Ram R L Buvanesh K K
Sprint-2	Build the CNN Model	USN-3	Identify the appropriate layers required for the model and determine the model parameters	2	High	Jeya Sundari Jothilakshmi M Ahash Ram R L Buvanesh K K
Sprint-2	Configure the model	USN-4	Perform model configuration by compiling it and implement techniques for loss reduction	5	Medium	Jeya Sundari Jothilakshmi M Ahash Ram R L Buvanesh K K
Sprint-2	Train, test and validate	USN-5	Initiate model training phase, later based on modeland validation loss values, start test phase	13	High	Jeya Sundari Jothilakshmi M

						Ahash Ram R L Buvanesh K K
Sprint-3	Register for IBM Cloud	USN-6	Set up IBM Watson Assistant with Cloud Service	2	High	Jeya Sundari Jothilakshmi M Ahash Ram R L Buvanesh K K
Sprint-3	Develop the web interface using Flask	USN-7	Design a UI for the web interface, with login, registration and input adding features	5	High	Jeya Sundari Jothilakshmi M Ahash Ram R L Buvanesh K K
Sprint-3	Perform server-side scripting	USN-8	Develop an application using python for back-end functions	13	Medium	Jeya Sundari Jothilakshmi M Ahash Ram R L Buvanesh K K

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 EndDate)	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	20	06 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	13 Nov 2022
Sprint-4	20	6 Days	14 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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{6} = \textbf{3.333}$$

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.