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

Date	22 October 2022
Team ID	PNT2022TMID46690
Project Name	Project - A Novel Method for Handwritten Digit Recognition System
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection and Pre-processing	USN-1	As a user, I can upload any kind of image with the pre-processing step is involved in it.	2	High	J. Fasila Afreen
Sprint-1		USN-2	As a user, I can upload the image to any resolution.	1	High	J. Fasila Afreen, R. Aarthi
Sprint-2	Model Building	USN-3	As a user, I will get an application with ML the model which provides high accuracy of recognized handwritten digit.	2	Medium	J. Fasila Afreen, T. Rethinapriya
Sprint-2		USN-4	As a user, I can pass the handwritten digit image for recognizing the digit and get the recognized digit.	1	Medium	J. Fasila Afreen, A. Surya
Sprint-3	Building User Interface Application	USN-5	As a user, I will upload the handwritten digit image to the application by clicking an upload button and see the predicted/recognized digits in the application.	2	High	J. Fasila Afreen
Sprint-4	Train and deployment of the model in the IBM Cloud	USN-6	As a user, I can access the web application and make use of the product from anywhere.	1	Medium	J. Fasila Afreen, T. Rethinapriya

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