Project Planning Phase

Date	22 October 2022
Team ID	PNT2022TMID18280
Project Name	A Novel Method for Handwritten Digit Recognition
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 & preprocessing	USN-1	As a user, I can upload any image and do the pre-processing steps involved in it.	10	High	Arthi, Nivetha, Shalini
Sprint-1		USN-2	As a user, the image can be uploaded at any resolution.	10	High	Snowlin Faustina, Shalini
Sprint-2	Building the Machinelearning model	USN-3	As a user, I can build an application using ML model which will provide higher accuracy for the recognized handwritten digit	3	Medium	Nivetha, Arthi
Sprint-2		USN-4	As a user, I can pass the handwritten image of the digit for recognizing the digit.	2	Medium	Arthi, Nivetha

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-5	As a user, I can provide the hand written digits for recognition.	10	High	Snowlin Faustina, Shalini,
Sprint-3	Building User Interface Application	USN- 6	As a user, I can login to the application by entering the user name and password	8	Medium	Snowlin Faustina, Shalini, Arthi
Sprint-3		USN-7	As a user, I can upload the handwritten digit image in the application	8	Medium	Shalini, Nivetha
Sprint-3		USN-8	As a user, I know the details of the fundamental usage and working of the application.	2	High	Snowlin Faustina, Arthi
Sprint-3		USN-9	As a user, I can see the predicted digits in the application	10	Medium	Snowlin Faustina, Nivetha, Snowlin
Sprint-4	Training and deployment of model in IBM Cloud	USN-10	As a user, I can access the web application remotely	20	High	Snowlin Faustina, Arthi, Shalini, Nivetha

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.