

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

Date	22 October 2022
Team ID	PNT2022TMID40635
Project Name	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	Pre processing	USN-1	As a user, I can upload any kind of image with the pre-processing step is involved in it.	3	High	Mubashshira S Saanthiya B
Sprint-1		USN-2	As a user, I can upload the image in any resolution.	1	Low	Mubashshira S Nithya M
Sprint-2	Model	USN-3	As a user, I will get a application with ML model which provides high accuracy of recognized handwritten digit.	2	Medium	Mubashshira S Nandhini P
Sprint-2		USN-4	As a user, I can pass the handwritten digit image for recognizing the digit.	2	Medium	Mubashshira S Nithya M
Sprint-2		USN-5	As a user,I can get the most suitable recognized digit.	3	High	Mubashshira S Nithya M

Sprint-3	UI Interface	USN-6	As a user, I will upload the handwritten digit image to the to the application by clicking a upload button.	3	High	Mubashshira S Nithya M
Sprint-3		USN-7	As a user, I can know the details of the fundamental usage of the application.	1	Low	Mubashshira S Santhiya B Nithya M
Sprint-3		USN-8	As a user I can see the predicted/recognized digits in the application.	3	High	Mubashshira S Nandhini P Nithya M
Sprint-4	Cloud Deployment	USN-9	As a user, I can access the web application and make the use of the product from anywhere.	3	High	Mubashshira S Nandhini P Nithya M Santhiya B

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)

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

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.

