

## Project Planning Phase

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

Date	23 October 2022
Team ID	PNT2022TMID49604
Project Name	Project - 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	Understanding the data	USN-1	Analyze the data, Importing the required libraries, Load the data, One hot encoding, Understanding the data.	2	High	Abinesh S Harini K Jubin SJ Ramasubramaniyan M
Sprint-2	Model Building	USN-2	Adding layers Compiling the model Model building Observing the metrics Save the model Test the model Test with saved model Training the model	2	High	Abinesh S Harini K Jubin SJ Ramasubramaniyan M
Sprint-3	Application building	USN-3	Create HTML pages. Link python files into HTML.	2	High	Abinesh S Harini K Jubin SJ Ramasubramaniyan M

Sprint-4	Train the model on IBM	USN-4	Train the final model on IBM and observe the metrics.	2	High	Abinesh S Harini K Jubin SJ Ramasubramaniyan M
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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	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

**Velocity:**

$$AV = \frac{\text{Sprint Duration}}{\text{Velocity}} = \frac{20}{6} = 3.33$$

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)