

## Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID06143
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	4 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	Data Collection	USN-1	Download the Dataset	10	High	Manoj S, Amarnath V
Sprint-1		USN-2	Image Pre-processing	10	High	Sundarapandi S, Saanakkya SL, Balaji B
Sprint-1		USN-3	Import and Configure the Image Data Generator Library and Class	10	High	Sundarapandi S, Saanakkya SL, Balaji B, Manoj S, Amarnath V
Sprint-1		USN-4	Apply Image Data Generator Functionality to Train-Set and Test-Set	10	High	Sundarapandi S, Saanakkya SL, Balaji B, Manoj S, Amarnath V
Sprint-2	Model Building	USN-5	Import the Model Building Libraries and Initializing the Model	10	High	Sundarapandi S, Saanakkya SL, Balaji B, Manoj S, Amarnath V
Sprint-2		USN-6	Adding CNN Layers and Dense Layers	10	High	Sundarapandi S, Saanakkya SL, Balaji B, Manoj S, Amarnath V

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-7	Configure the Learning Process	10	High	Mariraj K, Lokesh S
Sprint-2		USN-8	Train the Model, Save the Model and Test the Model	10	High	Sundarapandi S, Saanakkya SL, Balaji B, Manoj S, Amarnath V
Sprin -2		USN-9	Image processing of given image	10	High	Sundarapandi S, Saanakkya SL, Balaji B, Manoj S, Amarnath V
Sprint-3	Application Building	USN-10	Create Web Application using HTML, CSS, JavaScript	10	Medium	Sundarapandi S, Saanakkya SL, Balaji B, Manoj S, Amarnath V
Sprint-3		USN-11	Build Python code	10	High	Sundarapandi S, Saanakkya SL, Balaji B, Manoj S, Amarnath V
Sprint-3		USN-12	Run the Application	10	High	Sundarapandi S, Saanakkya SL, Balaji B, Manoj S, Amarnath V
Sprint-4	Train The Model on IBM	USN-13	Register for IBM Cloud	10	High	Sundarapandi S, Saanakkya SL, Balaji B, Manoj S, Amarnath V
Sprint-4		USN-14	Train the Model and Test the Model and its Overall Performance	10	High	Sundarapandi S, Saanakkya SL, Balaji B, Manoj S, Amarnath V

### 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	10	6 Days	24 Oct 2022	29 Oct 2022	10	29 Oct 2022
Sprint-2	10	6 Days	31 Oct 2022	05 Nov 2022	10	05 Nov 2022
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022
Sprint-4	10	6 Days	14 Nov 2022	19 Nov 2022	10	19 Nov 2022

#### Velocity:

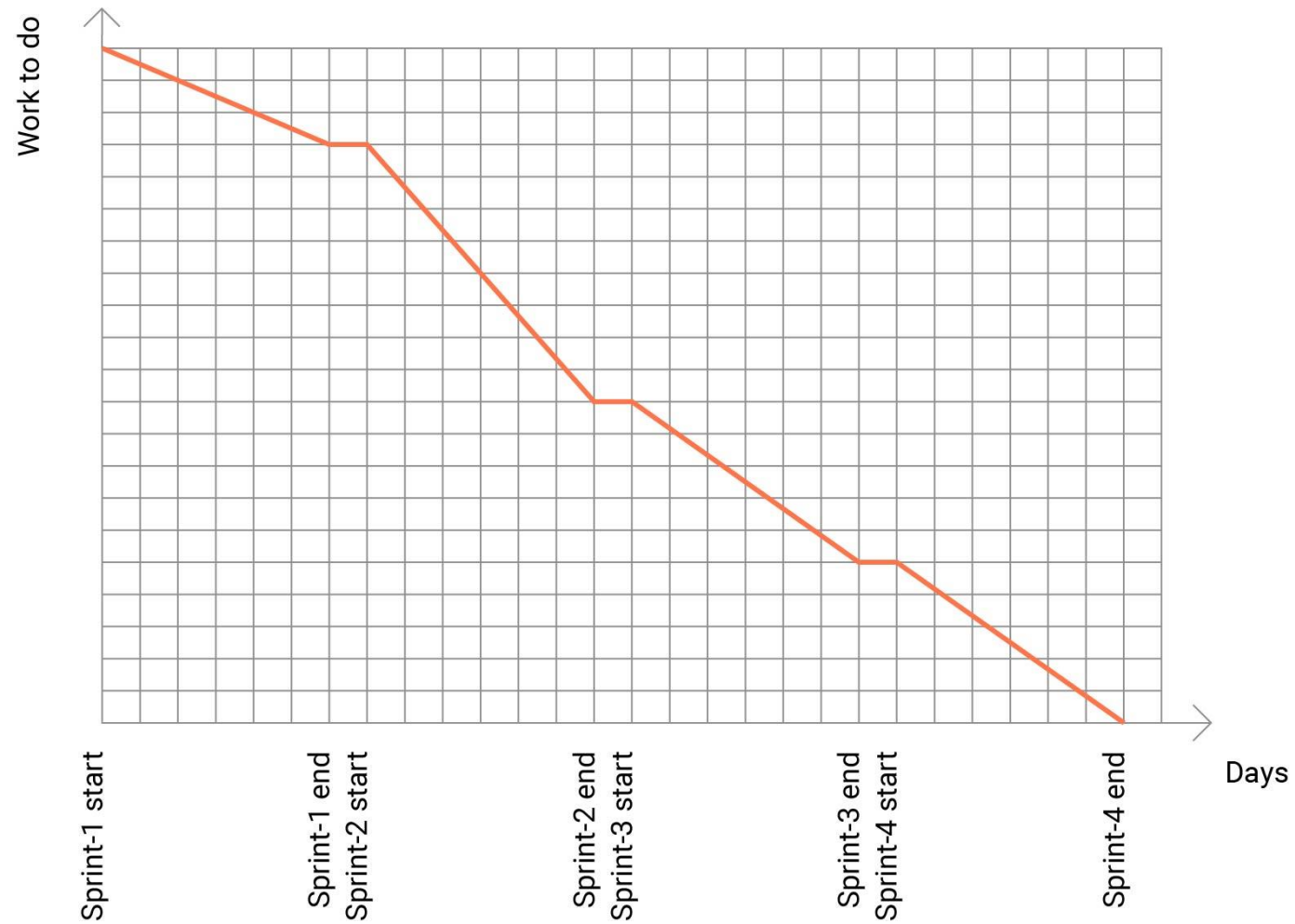
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

$$AV = 10/6 = 1.67$$

#### 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.



<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>