

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID27699
Project Name	Real - Time Communication System Powered by AI for Specially Abled
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	USN-1	Assemble a dataset.	9	High	Suraj K Zaffer Ahmed H M Shadrach Gideon S P
Sprint-1	Image Processing	USN-2	Pre-processing of images.	8	High	Zaffer Ahmed H.M. Surya Moorthy K
Sprint-2	Model building	USN-3	Add the necessary layers, import the necessary libraries, and compile the mode.	10	Medium	Surya Moorthy K Suraj K Zaffer Ahmed H M
Sprint-2	Train CNN model	USN-4	Using CNN, train the image classification model	7	Medium	Suraj K Zaffer Ahmed H M
Sprint-3	Training and Testing model	USN-5	Training the model and evaluating its output	9	High	Surya Moorthy K Shadrach Gideon S P
Sprint-4	Application Building	USN-6	Converting the sign language input photos of the English alphabet	7	Medium	Suraj K Surya Moorthy K

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	20	6 Days	28 Oct 2022	01 Nov 2022	8	02 Nov 2022
Sprint-2	20	6 Days	01 Nov 2022	06 Nov 2022	7	07 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	6	13 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	8	18 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)

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

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.

<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>