

Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)
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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 Preparation	USN-1	To train a machine learning model to predict diabetes, you need to collect and preprocess diabetes-related data.	4	High	Data Scientist (Likhith)
Sprint-2	Model Development	USN-2	To understand the distribution of the data in the dataset and identify any potential issues.	3	High	Data Analyst (HarshaVardhan)
Sprint-3	Model Evaluation	USN-3	To develop and train machine learning models to predict diabetes.	3	Low	MachineLearning Engineer (Meher Baba)
Sprint-4	User Interface and Deployment	USN-4	To develop and train machine learning models to predict diabetes.	4	Medium	Project Manager (Phanindra)
Sprint-5	Testing	USN-5	To deploy the model and user interface to a production environment.	2	High	Developer + Technical Writer (Likhith ,Harsha)
			To create documentation and manuals for projects and products.			

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	4	6 Days	24 Oct 2023	29 Oct 2023	20	29 Oct 2022
Sprint-2	3	3 Days	31 Oct 2023	02 Nov 2023	20	02 Nov 2023
Sprint-3	3	4 Days	03 Nov 2023	6 Nov 2023	20	6 Nov 2023
Sprint-4	4	5 Days	07 Nov 2023	11 Nov 2023	20	11 Nov 2023
Sprint-5	2	6 Days	12 Nov 2023	19 Nov 2023	20	19 Nov 2023

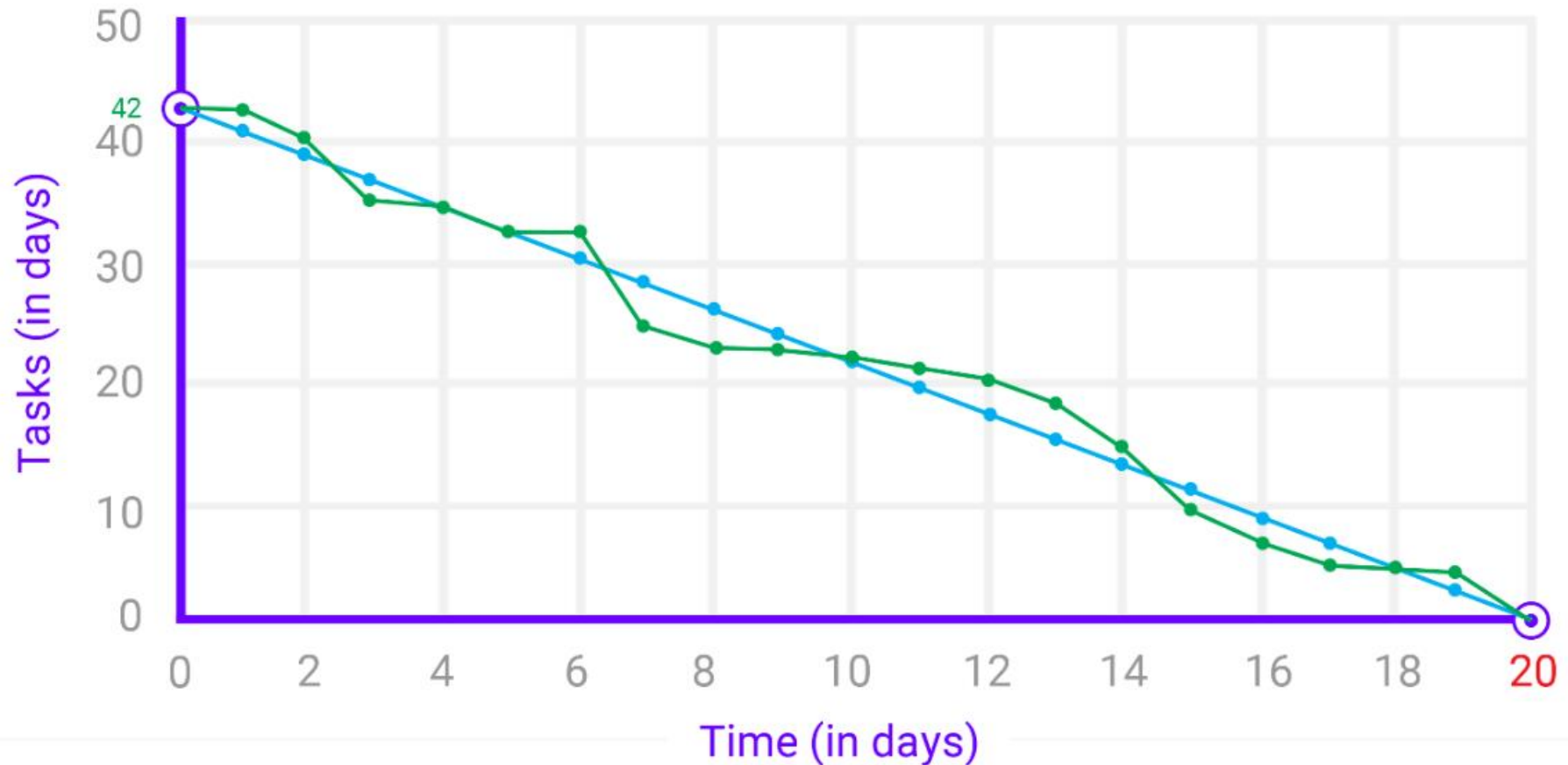
Velocity:

To calculate the average velocity (story points per day) of a team with a 5-day sprint duration and a velocity of 20 (story points per sprint), divide the team's velocity by the sprint duration.

$$AV = \frac{\textit{sprint duration}}{\textit{velocity}} = \frac{20}{5} = 4$$

Burndown Chart:

Burn down charts are a visual way to track the progress of a project over time. They show how much work is left to do and how quickly it is being completed. Burn down charts are often used in software development, but they can be used for any project that has measurable progress.



<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>