

Project Planning Phase

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

Date	18 th November 2023
Team ID	591645
Project Name	Diabetes Prediction Using Machine Learning
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	Form filling	USN-1	As a user, I can fill the form with details like age, insulin levels, BMI Index for the prediction.	2	High	Sadhia
Sprint-1		USN-2	As a user, I can give all the information for analysis of diabetes.	1	High	Purnima
Sprint-2		USN-3	As a user, I will click the predict button, so that the system proceeds.	2	Low	Meghana
Sprint-1		USN-4	As a user, I can get the results with in minutes.	2	Medium	Lalitha
Sprint-1	Results	USN-5	As a user, I will know whether I am having chances of diabetes or not.	1	High	Purnima

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	4 Days	31 Oct 2023	03 Nov 2023	20	19 Nov 2023
Sprint-2	20	6 Days	04 Nov 2023	09 Nov 2023		
Sprint-3	20	4 Days	10 Nov 2023	13 Nov 2023		
Sprint-4	20	6 Days	14 Nov 2023	19 Nov 2023		

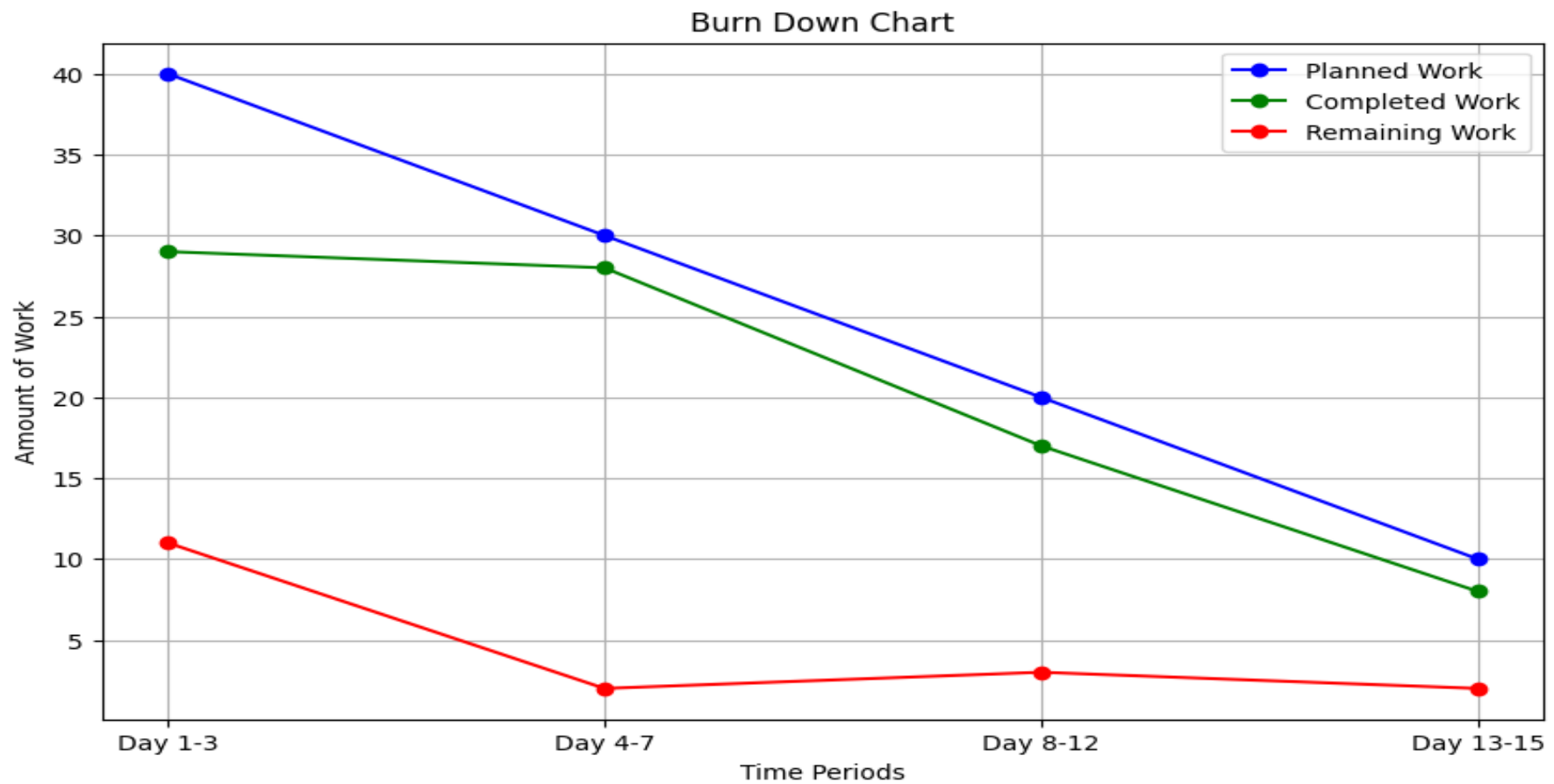
Velocity:

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.



Burnt down chart code:

<https://colab.research.google.com/drive/1JEhKJuiSrGvNf-YVMLXwcvUSPYZ5cxLC?usp=sharing>

References:

<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>