Project Planning Phase

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

Date	26 October 2023
Team ID	592670
Project Name	Machine Learning Approach For Predicting The Rainfall
Maximum Marks	20 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	Daily rainfall predictions for the farmer's specific geographic location		I want to receive daily rainfall predictions for my area so that I can make informed decisions about when to plant or harvest my crops.	3	Low	Harsh Gupta
Sprint - 1	Real-time rainfall predictions	USN - 2	I want to receive real-time rainfall predictions to monitor and prepare for potential flooding events.	6	High	Chaitanya Kadam
Sprint - 1	Access to historical rainfall data	USN - 3	I want to access historical rainfall data and predictions to plan the distribution of water resources effectively.	4	High	Kesava Trinadh
Sprint - 2	System should offer advanced modelling tools	USN - 4	I want to have access to advanced modeling tools to improve the accuracy of rainfall predictions and provide more reliable forecasts to the public.	4	Medium	Vanshika Patel
Sprint - 2	System should provide weekend rainfall predictions	USN - 5	I want to know the expected rainfall for the upcoming weekend in a specific location so that I can plan my outdoor activities accordingly.	3	Low	Harsh Gupta
Sprint - 3	Access to historical rainfall data and advanced modelling tools	USN - 6	I want to access historical rainfall data and prediction models to conduct climate change and weather pattern studies.	5	Medium	Vanshika Patel

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	13	7 Days	18 Oct 2023	25 Oct 2023	20	18 Oct 2023
Sprint - 2	7	8 Days	26 Oct 2023	02 Nov 2023		
Sprint - 3	5	2 Days	3 Nov 2023	5 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

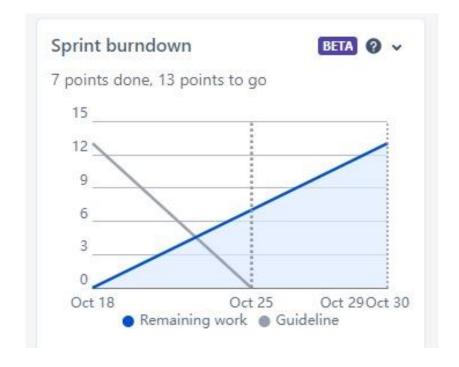
$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

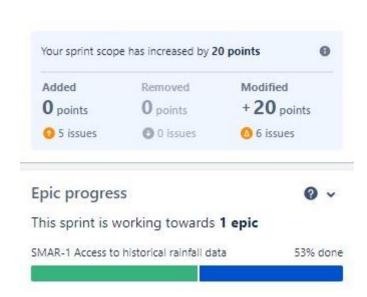
$$AV = 29/20 = 1.45$$

Burndown Chart:

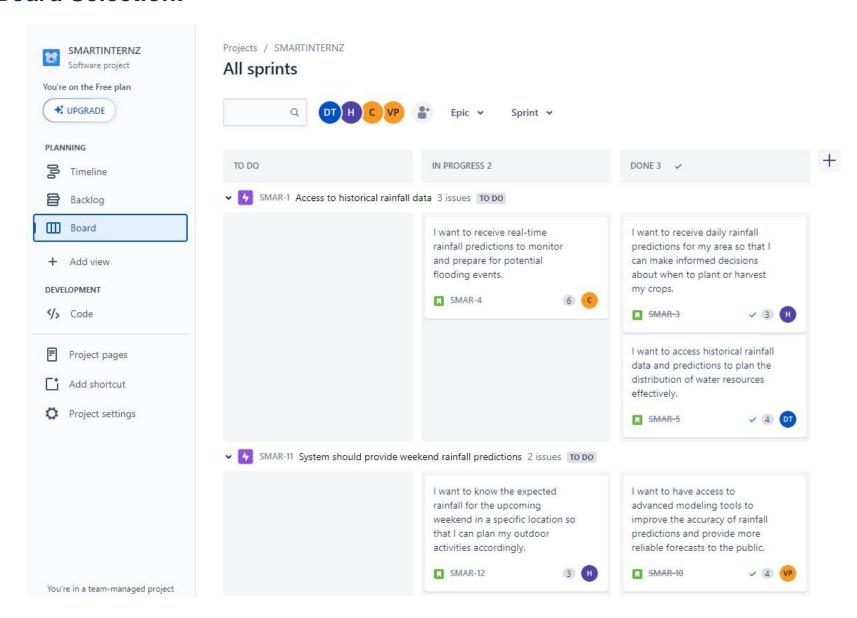
A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.



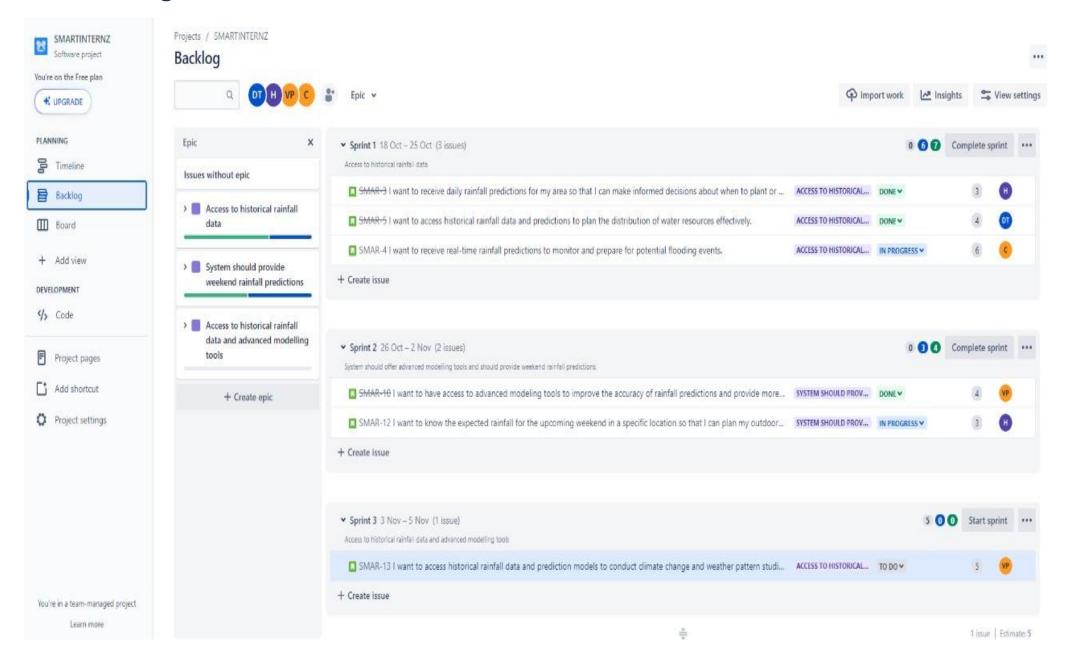




Board Selection:



Backlog Selection:



Timeline:

