Project Planning Phase

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

Date	23 October 2023
Team ID	Team-592661
Project Name	AI-driven resource 5G optimization
Maximum Marks	8 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	Network monitoring and maintenance	USN-1	Monitor network performance in real-time. Implement routine network maintenance procedures.	2	High	Sai Akshith
Sprint-1	Network Infrastructure Optimization	USN-2	Upgrade network hardware to support higher bandwidth requirements	2	High	Sai Akshith
Sprint-2	AI System Management and Optimization	USN-3	Upgrade network hardware to support higher bandwidth requirements	2	Medium	Sai Akshith
Sprint-2	AI Model Development	USN-4	Develop and fine-tune machine learning models for 5G network resource optimization	2	Medium	Visweswar Reddy
Sprint-3	Customer Support and Issue Resolution	USN-5	Collaborate with network engineers to resolve complex customer issues	2	Medium	Visweswar Reddy

Sprint-3	User Experience and Network Performance	USN-6	Provide feedback on network performance and AI-driven optimizations	1	Low	Jaswanth Sai
Sprint-3	Network Maintenance and Infrastructure Management	USN-7	Perform regular maintenance tasks to ensure the network's physical components are in good condition	2	Medium	Jaswanth Sai

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	8 Days	24 Oct 2023	29 Oct 2023	20	29 Oct 2022
Sprint-2	20	8 Days	31 Oct 2023	05 Nov 2023	20	05 Nov 2023
Sprint-3	20	8 Days	07 Nov 2023	09 Nov 2023	20	09 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)

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

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.