

Project Planning Phase

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

Date	01 November 2023
Team ID	592419
Project Name	Share Price Estimation of Top 5 GPU Companies
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	Historical Stock Prices	USN-1	Include historical daily or minute-by-minute stock prices for the target GPU companies.	5	High	Rishika
Sprint-1	Financial Indicators	USN-2	Integrate financial indicators such as earnings per share (EPS), price-to-earnings ratio (P/E), and return on equity (ROE).	8	High	Aayushi
Sprint-2	Market Indices	USN-3	Include relevant market indices, such as the S&P 500 or industry-specific indices, to capture broader market trends.	3	Medium	Rishika
Sprint-2	Technical Indicators	USN-4	Incorporate technical indicators like moving averages, Relative Strength Index (RSI), and Bollinger Bands.	5	Medium	Aayushi

Sprint-1	News and Sentiments Analysis	USN-5	Integrate sentiment analysis of news articles and social media related to the GPU companies.	8	High	Rishika
Sprint -1	Macroeconomic factors	USN-6	Include macroeconomic indicators such as GDP growth, inflation rates, and interest rates.	5	High	Aayushi
Sprint-2	Dividend yields	USN-7	Consider the dividend yields of the GPU companies	8	Medium	Rishika
Sprint 2	Volatility measures	USN-8	Incorporate measures of stock volatility, such as historical volatility or implied volatility	3	Medium	Aayushi

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	3 Days	21 Oct 2023	23 Oct 2023	4	23 Oct 2023
Sprint-2	4	3 Days	24 Oct 2023	26 Oct 2023	4	26 Oct 2023
Sprint-3	10	3 Days	27 Oct 2023	29 Oct 2023	9	29 Oct 2023
Sprint-4	4	3 Days	30 Oct 2023	1 November 2023	4	31 Oct 2023
Sprint -5	2	3 Days	2 Nov 2023	4 Nov 2023	2	2 Nov 2023

Velocity:

Imagine we have a 15-day sprint duration, and the velocity of the team is 24 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \text{Sprint Duration} / \text{Velocity} = 15/24 = 0.625$$

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.

Story Points

