Project Planning Phase

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

Date	20 MARCH 2025
Team ID	PNT2025TMID06667
Project Name	Project - Power BI Inflation Analysis Journeying Through Global Economic Terrain.
Maximum Marks	5 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	Data Integration	USN-1	As a user, I can connect to real-time financial APIs (IMF, World Bank, OECD) for live inflation data.	3	High	Data Engineer
Sprint-1	Dashboard & Visualization	USN-2	As a user, I can view inflation trends via interactive Power BI charts and graphs.	2	High	Power BI Developer
Sprint-2	User Access & Security	USN-3	As a user, I can securely log in and access role-based dashboards.	2	Medium	Backend Developer
Sprint-2	Data Processing & Transformation	USN-4	As a user, I can filter and aggregate inflation data by country, sector, and time period.	3	High	Data Engineer
Sprint-2	Predictive Analytics	USN-5	As a user, I can view AI-driven inflation forecasts using ML models (ARIMA, LSTM, Prophet).	4	High	Data Scientist
Sprint-3	Custom Reports & Exports	USN-6	As a user, I can download inflation reports in PDF, Excel, and PowerPoint formats.	2	Medium	Power BI Developer
Sprint-3	Correlation Insights	USN-7	As a user, I can compare inflation rates with GDP, interest rates, and unemployment	3	High	Data Analyst

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			trends.			
Sprint-4	API Integration	USN-8	As a developer, I can connect external applications to Power BI via APIs.	4	Low	API Developer

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	6 Days	1 Apr 2025	06 Apr 2025	20	06 Apr 2025
Sprint-2	20	6 Days	08 Apr 2025	13 Apr 2025	18	14 Apr 2025
Sprint-3	20	6 Days	15 Apr 2025	20 Apr 2025	16	21 Apr 2025
Sprint-4	20	6 Days	22 Apr 2025	27 Apr 2025	TBD	TBD

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)

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