

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

Date	28 June 2025
Team ID	PLTVIP2025TMID51410
Project Name	Measuring the pulse of prosperity: - An index of economic freedom analysis
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 Collection	USN-1	As a user, I want to collect economic data from the Index of Economic Freedom API.	3	High	Konchada Asha
Sprint-1	Data Preprocessing	USN-2	As a user, I want to clean and normalize the dataset for analysis.	3	High	jayanth kumar
Sprint-2	Data Analysis	USN-3	As a user, I want to analyse correlation between freedom index and GDP.	4	Medium	madhusudhan rao
Sprint-2	Prediction Model	USN-4	As a user, I want to predict GDP using economic indicators.	5	Medium	yashwanth siva kumar
Sprint-3	Dashboard	USN-5	As a user, I want to see the data in an interactive dashboard (Stream lit).	3	High	Konchada Asha
Sprint-3	Filtering	USN-6	As a user, I want to filter dashboard data by country and year.	2	Medium	jayanth kumar
Sprint-4	Report Generation	USN-7	As a user, I want to download summary reports of findings as PDFs.	2	Low	yashwanth Siva Kumar

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-1	6	6 Days	01 July 2025	06 July 2025	06
Sprint-2	9	6 Days	07 July 2025	12 July 2025	12
Sprint-3	5	6 Days	13 July 2025	18 July 2025	18
Sprint-4	2	6 Days	19 July 2025	24 July 2025	24

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)

$$\text{Average Velocity} = 5.5 \text{ Story Points per Sprint}$$

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.

