Project Planning Phase

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

Date	30 June 2025
Team ID	LTVIP2025TMID49576
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 Preparation	USN-1	As a data analyst, I want to collect data on economic freedom indicators	2	High	Team A
Sprint-1		USN-2	As a data engineer, I want to load the collected data into a clean format	1	High	Team A
Sprint-1		USN-3	As a data scientist, I want to handle missing values for consistent data analysis	3	Medium	Team A
Sprint-1		USN-4	As a data scientist, I want to encode categorical data properly	2	Medium	Team A
Sprint-2	Modeling & Deployment	USN-5	As a developer, I want to build an index model to compute economic freedom	5	High	Team B
Sprint-2		USN-6	As a tester, I want to validate the index model for correctness	3	High	Team B
Sprint-2		USN-7	As a UI designer, I want to create HTML pages to display results	3	Medium	Team C
Sprint-2		USN-8	As a backend developer, I want to deploy the application using Flask	5	High	Team C

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	Data Preparation	USN-1	As a data analyst, I want to collect data on economic freedom indicators	2	High	Team A
Sprint-1		USN-2	As a data engineer, I want to load the collected data into a clean format	1	High	Team A
Sprint-1		USN-3	As a data scientist, I want to handle missing values for consistent data analysis	3	Medium	Team A
Sprint-1		USN-4	As a data scientist, I want to encode categorical data properly	2	Medium	Team A
Sprint-2	Modeling & Deployment	USN-5	As a developer, I want to build an index model to compute economic freedom	5	High	Team B
Sprint-2		USN-6	As a tester, I want to validate the index	3	High	Team B

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
			model for correctness			
Sprint-2		USN-7	As a UI designer, I want to create HTML pages to display results	3	Medium	Team C
Sprint-2		USN-8	As a backend developer, I want to deploy the application using Flask	5	High	Team C

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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts