Project Planning Phase

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

Date	31 January 2026
Team ID	LTVIP2026TMIDS46998
Project Name	Measuring the pulse of prosperity: An Index of economic freedom analysis
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	**Data Input & Configuration**	**USN-1**	**As a user, I can select countries and regions for economic analysis**	**2**	**High**	**Analyst**
Sprint-1	**Data Input & Configuration**	**USN-2**	**As a user, I can select the time period (year or range of years)**	**1**	**High**	**Analyst**

Sprint-1	**Data Upload**	**USN-3**	**As a user, I can upload Economic Freedom Index datasets**	**2**	**High**	**Analyst**
Sprint-1	**Data Upload**	**USN-4**	**As a user, I can upload economic indicator datasets (GDP, HDI, poverty)**	**2**	**High**	**Analyst**
Sprint-2	**Data Validation**	**USN-5**	**As a user, I can validate uploaded data for missing or incorrect values**	**2**	**High**	**Analyst**
Sprint-2	**Data Pre-processing**	**USN-6**	**As a user, I can preprocess data (cleaning and normalization)**	**3**	**High**	**Analyst**
Sprint-2	**Data Storage**	**USN-7**	**As a user, I can store raw and processed datasets securely**	**1**	**Medium**	**Analyst**
Sprint-3	**Economic Freedom Analysis**	**USN-8**	**As a user, I can analyze overall and component-wise economic freedom scores**	**3**	**High**	**Analyst**
Sprint-3	**Prosperity Analysis**	**USN-9**	**As a user, I can analyze prosperity indicators like income and employment**	**2**	**High**	**Analyst**

Sprint-3	**Comparative Analysis**	**USN-10**	**As a user, I can compare high and low economic freedom countries**	**2**	**Medium**	**Analyst**
Sprint-4	**Correlation Analysis**	**USN-11**	**As a user, I can study correlation between economic freedom and prosperity**	**3**	**High**	**Analyst**
Sprint-4	**Visualization**	**USN-12**	**As a user, I can view charts and graphs of analysis results**	**2**	**High**	**Analyst**
Sprint-4	**Reporting**	**USN-13**	**As a user, I can generate and export reports in PDF/PPT format**	**2**	**High**	**Analyst**
Sprint-5	**Policy Insights**	**USN-14**	**As a user, I can interpret results and identify policy recommendations**	**2**	**Medium**	**Analyst**
Sprint-5	**Dashboard**	**USN-15**	**As a user, I can view a summary dashboard of key findings**	**1**	**Medium**	**Analyst**

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	4 Days	1 Feb 2026	4 Feb 2026	20	4 Feb 2026
Sprint-2	20	4 Days	5 Feb 2026	8 Feb 2026	20	8 Feb 2026
Sprint-3	20	4 Days	9 Feb 2026	12 Feb 2026	20	12 Feb 2026
Sprint-4	20	4 Days	13 Feb 2026	16 Feb 2026	20	18 Feb 2026
Sprint-5						

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