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

Date	15 February 2025
Team ID	LTVIP2026TMIDS85825
Project Name	Prosperity Prognosticator – Machine Learning for Startup Success Prediction
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 (Updated for Project)	Story Points	Priority	Team Members
Sprint-1	User Registration	USN-1	As a startup analyst, I can register in the Prosperity Prognosticator system using email and password to access prediction features.	2	High	Frontend, Backend
Sprint-1	User Confirmation	USN-2	As a registered user, I receive an email confirmation to securely activate my Prosperity Prognosticator account.	1	High	Backend
Sprint-2	Social Registration	USN-3	As a user, I can register using social login to quickly access startup success prediction services.	2	Low	Backend
Sprint-1	User Login	USN-4	As a registered user, I can log in to the Prosperity Prognosticator platform to view startup prediction analytics.	1	High	Backend
Sprint-1	Dashboard	USN-5	As a policy maker or entrepreneur, I can view a dashboard showing startup success probability and risk indicators.	3	High	Frontend
Sprint-1	Startup Data Input	USN-6	As a user, I can enter startup details such as domain, funding amount, team size, and market type for prediction.	3	High	Frontend, Backend
Sprint-1	Data Preprocessing	USN-7	As a system, I preprocess startup data to ensure accuracy before applying machine learning models.	4	High	ML Engineer
Sprint-1	ML Prediction Engine	USN-8	As a user, I can request startup success prediction generated using machine learning algorithms.	5	High	ML Engineer

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task (Updated for Project)	Story Points	Priority	Team Members
Sprint-2	Feature Analysis	USN-9	As a user, I can view key factors influencing startup success derived from the ML model.	3	Medium	ML Engineer
Sprint-2	Reports	USN-10	As a policy maker, I can download detailed startup success reports to support data-driven policy decisions.	3	Medium	Frontend
Sprint-2	Prediction History	USN-11	As a user, I can view historical startup predictions for comparison and trend analysis.	2	Medium	Backend
Sprint-1	Admin – User Management	USN-12	As an administrator, I can manage users accessing the Prosperity Prognosticator system.	2	High	Backend
Sprint-1	Admin – Dataset Management	USN-13	As an administrator, I can upload and update startup datasets used for model training.	3	High	ML Engineer
Sprint-1	Admin – Model Training	USN-14	As an administrator, I can train and update machine learning models to improve prediction accuracy.	5	High	ML Engineer
Sprint-2	Admin – System Reports	USN-15	As an administrator, I can view system-wide analytics and prediction usage reports.	2	Medium	Backend

Project Tracker, Velocity & Burndown Chart: (4 Marks)

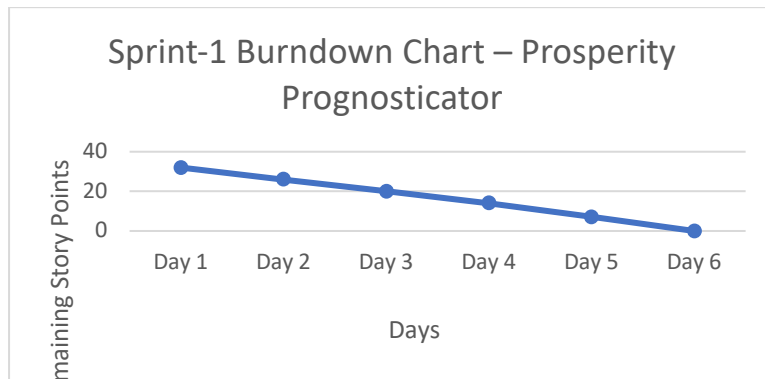| Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	32	6 Days	1 Feb 2025	7 Feb 2025	32	7 Feb 2025
Sprint-2	15	6 Days	8 Feb 2025	14 Feb 2025	15	14 Feb 2025

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 = Total Story Points / Sprint Duration

AV = 32 / 6 ≈ 5.3 story points per day

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