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

Date	14 Feb 2026
Team ID	LTVIP2026TMIDS47450
Project Name	prosperity prognosticator: machine learning for startup success prediction
Maximum Marks	5 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Product backlog and sprint schedule:

Sprint	Functional Requirement(Epic)	User Story Number	User Story/ Task	Story Points	Priority	Team Members
Sprint-1	Data Acquisition & Cleaning	USN-1	As a data scientist, I want to collect, clean, and preprocess startup datasets so that the data can be used for model training.	5	High	D. Sowmya
Sprint-2	Model Building	USN-2	As a developer, I want to build a startup success prediction model using machine learning algorithms (Random Forest, Logistic Regression).	2	Medium	B. Vijay Kumar
Sprint-2	Model Testing & Evaluation	USN-3	As a team, we want to evaluate model performance using accuracy, confusion matrix, precision, recall, and F1-score.	3	Medium	D. Sowmya
Sprint-3	Front-End Interface	USN-4	As a UI/UX designer, I want to create an HTML form where users can enter startup details and view predictions.	4	High	M. Kalpana
Sprint-3	Model Evaluation	USN-5	As a QA engineer, I want to validate model accuracy using cross-validation and hyperparameter tuning.	3	High	B. Vijay Kumar

Sprint-4	Deployment	USN-6	As a developer, I want to deploy the model using Flask so users can access predictions through a web interface.	3	Medium	M. Kalpana
Sprint-4	Report Generation	USN-7	As a user, I want to generate a summary report showing startup success prediction results.	2	Low	N. Sravanthi

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

Sprint	**Total Story Points**	**Duration**	**Sprint Start Date**	**Sprint End Date (Planned)**	**Story Points Completed**	**Sprint Release Date (Actual)**
Sprint-1	5	5 Days	25 Jan 2026	28 January 2026	5	28 January 2026
Sprint-2	5	5 Days	29 January 2026	2 Feb 2026	5	2 Feb 2026
Sprint-3	7	5 Days	3 Feb 2026	8 Feb 2026	7	8 Feb 2026
Sprint-4	5	5 Days	9 Feb 2026	14 Feb 2026	5	14 Feb 2026

Project Tracker, Velocity & Burndown Chart

Velocity Calculation

Assume:

- Sprint Duration = 10 days
- Total Velocity = 20 story points per sprint

Average Velocity (AV) per day:

$$\mathbf{AV = 20/10 = 2}$$

Team's average velocity = 2 story points per day