

## Project Planning Phase

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

Date	15 February 2025
Team ID	LTVIP2026TMIDS74689
Project Name	Prosperity Prognosticator – ML 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	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	As a developer, I can collect startup dataset from public sources.	3	High	Sushma
Sprint-1	Data Collection	USN-2	As a developer, I can collect funding and investor data.	2	High	Sushma
Sprint-1	Data Preparation	USN-3	As a developer, I can clean missing and inconsistent data.	3	Low	Sushma
Sprint-1	Data Preparation	USN-4	As a developer, I can perform feature engineering.	5	High	Ramarao
Sprint-1	Data Preparation	USN-5	As a developer, I can encode categorical variables.	2	medium	Ramarao
Sprint 2	Model Development	USN-6	As a developer, I can build Logistic Regression model.	3	High	Ramarao
Sprint 2	Model Development	USN-7	As a developer, I can build Logistic Regression model.	5	High	Ramarao
Sprint 2	Model Development	USN-8	As a developer, I can build XGBoost model.	5	High	Ramarao

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint 2	Model Evaluation	USN-9	As a developer, I can evaluate models using accuracy & confusion matrix.	2	High	Bhavitha
Sprint 2	Model Evaluation	USN-10	As a developer, I can calculate precision, recall & AUC score.	3	High	Bhavitha
Sprint 3	Dashboard Development	USN-11	As an investor, I can view startup success probability score.	5	High	Bhavitha
Sprint 3	Dashboard Development	USN-12	As a user, I can view risk analysis and key success factors.	5	High	Lakshmi Devi
Sprint 3	Deployment	USN-13	As a developer, I can deploy the model on cloud platform.	5	Medium	Lakshmi Devi
Sprint 3	Testing	USN-14	As a developer, I can test the system for accuracy and usability.	3	High	Lakshmi Devi

#### 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	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)

### 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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

### 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>