Project Planning Phase

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

Date	10 February 2026
Team ID	LTVIP2026TMIDS90948
Project Name	Online Payments Fraud Detection using Machine Learning
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 Engineering	USN-1	As a developer, I want to preprocess the Kaggle dataset and handle class imbalance using SMOTE..	5	High	N.P.N.V.Sai
Sprint-1	Model Training	USN-2	As a developer, I want to train and compare XGBoost and Random Forest models based on F1-Score	8	High	N.P.N.V.Sai
Sprint-2	Backend Dev	USN-3	As a dev, I want to create a Flask API that loads the .pkl model and computes "Error Balance" features.	5	High	N.Anantha
Sprint-2	Frontend Dev	USN-4	As a user, I want a web form to input transaction details and see a color-coded risk report.	3	Medium	P.Harsha
Sprint-3	Benchmarking	USN-5	As a developer, I want to integrate and test ExtraTrees, Decision Tree, and SVM for final benchmarking.	5	Medium	M.Nani
Sprint-3	Deployment	USN-6	As an admin, I want the system deployed on IBM Cloud for global accessibility.	2	Medium	P.Harsha

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	31 Jan 2026	05 Feb 2026	20	05 Feb 2026
Sprint-2	20	6 Days	07 Feb 2026	12 Feb 2026	20	12 Feb 2026
Sprint-3	20	6 Days	13 Feb 2026	18 Feb 2026	20	18 Feb 2026
Sprint-4	20	6 Days	19 Feb 2026	24 Feb 2026	20	24 Feb 2026

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