

## Project Planning Phase

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

Date	25-02-2026
Team ID	LTVIP2026TMIDS42037
Project Name	Online Payment Fraud Detection
Maximum Marks	5 Marks

### Customized Product Backlog and Sprint Schedule

Sprint	Functional Requirement	User Story	Story Points	Priority
Sprint-1	Data Collection & Preprocessing	Collect fraud dataset (CSV), clean data, handle missing values, encode categorical variables, perform feature scaling.	5	High
Sprint-2	Model Development	Train Logistic Regression, Random Forest, and Decision Tree models for fraud classification.	5	High
Sprint-3	Model Evaluation & Optimization	Evaluate models using Accuracy, Precision, Recall, F1-score, and Cross-validation. Perform hyperparameter tuning.	5	Medium

Sprint-4	Model Deployment	Save best model using Joblib and deploy using Flask with web interface for real-time prediction.	5	High
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### Project Tracker and Velocity

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date	Story Points Completed
Sprint-1	5	5 Days	01 March 2026	05 March 2026	5
Sprint-2	5	5 Days	06 March 2026	10 March 2026	5
Sprint-3	5	5 Days	11 March 2026	15 March 2026	5
Sprint-4	5	5 Days	16 March 2026	20 March 2026	5

### Velocity Calculation:

Total Story Points Completed per

Sprint = 5 Sprint Duration = 5 Days

Average Velocity (AV) = Story Points / Duration =  $5 / 5 = 1$  point per day

### Burndown Chart Explanation

A burndown chart represents the remaining work versus time. In this project, story points decrease steadily across 5 days of each sprint until all planned tasks are completed. This ensures timely delivery of fraud detection features including preprocessing, model training, evaluation, and deployment.