

Project Planning - Sprint Wise Breakdown

Date	18 February 2026
Team ID	LTVIP2026TMIDS54446
Project Title	Online Payment Fraud Detection System using Machine Learning
Maximum Marks	5 Marks

Sprint-1: Data Collection & Preprocessing

Sprint	Functional Requirement	User Story No	User Story / Task	SP	Priority
Sprint-1	Data Collection	USN-1	Collect PaySim fraud dataset from Kaggle.	3	High
Sprint-1	Data Cleaning	USN-2	Clean null values and handle missing data.	2	High
Sprint-1	Data Encoding	USN-3	Encode categorical variables and apply feature scaling.	3	High

Sprint-2: Model Development

Sprint	Functional Requirement	User Story No	User Story / Task	SP	Priority
Sprint-2	Model Training	USN-4	Train Logistic Regression model.	2	Medium
Sprint-2	Model Training	USN-5	Train Random Forest and XGBoost models.	3	High
Sprint-2	Imbalance Handling	USN-6	Apply SMOTE to handle class imbalance.	3	High

Sprint-3: Model Evaluation

Sprint	Functional Requirement	User Story No	User Story / Task	SP	Priority
Sprint-3	Model Evaluation	USN-7	Evaluate using Accuracy, Precision, Recall and F1-Score.	3	High
Sprint-3	Confusion Matrix	USN-8	Generate confusion matrix and performance report.	2	High

Sprint-4: Deployment & Testing

Sprint	Functional Requirement	User Story No	User Story / Task	SP	Priority
Sprint-4	Flask Integration	USN-9	Integrate ML model with Flask web application.	3	High
Sprint-4	UI Development	USN-10	Create fraud prediction user interface.	3	Medium
Sprint-4	Deployment	USN-11	Deploy system on Render or AWS platform.	2	Medium