Project Design Phase-II

Data Flow Diagram & User Stories

Date	12 February 2026
Team ID	LTVIP2026TMIDS41565
Project Name	Online Payments Fraud Detection using Machine Learning
Maximum Marks	4 Marks

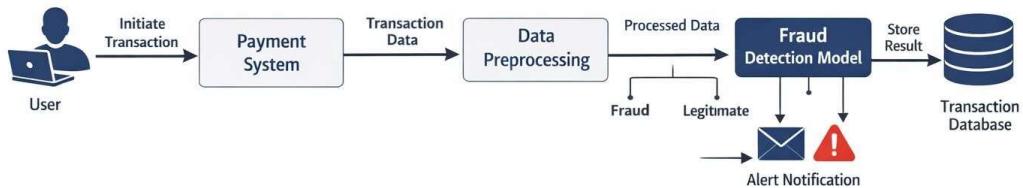### Data Flow Diagram (DFD - Level 0)

User Type	Epic	User Story No.	User Story / Task	Acceptance Criteria	Priority	Release
Online Customer	Transaction Security	USN-1	As a user, I can make online payments securely.	Transaction is classified as fraud or legitimate instantly.	High	Sprint-1

Online	Alerts	USN-2	As a user, I	Fraudulent	High	Sprint-1

A Level-0 DFD illustrates how data flows between the user, payment system, preprocessing layer, machine learning fraud detection model, and transaction database.

Online Payments Fraud Detection – Level 0 DFD

User Stories

Customer			receive alerts for suspicious transactions.	transactions trigger instant notification.		
Fraud Analyst	Monitoring	USN-3	As an analyst, I can view flagged fraudulent transactions.	Dashboard shows fraud probability and transaction details.	High	Sprint-2
Risk Manager	Reporting	USN-4	As a manager, I can view fraud statistics and trends.	System generates daily/weekly fraud reports.	Medium	Sprint-2

Admin	Model Management	USN-5	As an admin, I can update or retrain the ML model.	Updated model deploys without affecting system performance.	Medium	Sprint-3