

Project Design Phase-II

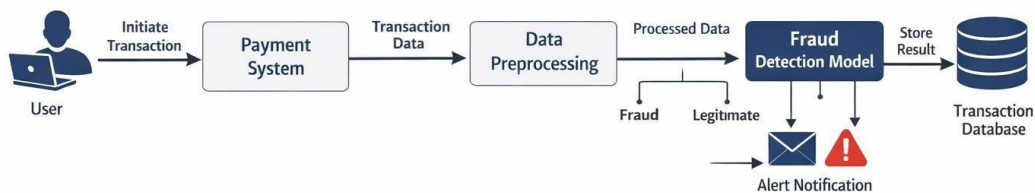
Data Flow Diagram & User Stories

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| Date | 14 February 2026 |
| Team ID | LTVIP2026TMIDS47409 |
| Project Name | Online Payments Fraud Detection using Machine Learning |
| Maximum Marks | 4 Marks |

Data Flow Diagram (DFD - Level 0)

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

| 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 |

| | | | | | | |
|---------------|------------------|-------|--|---|--------|----------|
| 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 |