Project Design Phase-II

Data Flow Diagram & User Stories

Date	31 JANUARY 2026
Team ID	LTVIP2026TMIDS79486
Project Name	Online Payments Fraud Detection Using ML
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the rightamount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

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The purpose of this project is to build an intelligent fraud detection platform that helps financial systems identify risky transactions quickly and accurately. The system aims to simplify fraud monitoring using automated machine learning techniques and a user-friendly interface.

1. **Empowering Financial Security:** The system analyzes transaction patterns to detect suspicious behavior and reduce fraud risks.
2. **Intelligent Prediction:** Uses machine learning models trained on historical transaction data to identify anomalies.
3. **Real-Time Decision Support:** Provides instant prediction results through a web application.
4. **Model Comparison:** Evaluates multiple machine learning algorithms to choose the best-performing model.
5. **Accessible Platform:** A Flask-based interface allows users to easily input transaction data and obtain predictions.

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer	Online Shopping	USN-1	As a customer, I want the system to alert me if a suspicious transaction is detected on my account.	User receives an alert/notification for suspicious transactions.	High	Sprint-1

-3		USN-2	As a customer, I want the system to alert me the receiver is a potential scammer.	User can view detailed reasons and factors contributing to the suspicious flag.	High	Sprint-3
-2		USN-4	As a customer, I should be able to flag the receiver as scammer.	User can report and provide feedback on flagged	Medium	Sprint-2

		USN-5	As a user I can register for the application through entering email and password	User is able to register successfully to the platform	High	Sprint-1
Government Organization	Government	USN-1	Government should be informed about potential scammers who are using fake credit cards, so that they can take legal actions.	Government is able to fetch data from our servers	Medium	Sprint-3

Administrator	Administration	USN-1	As an admin, I want to generate monthly reports on the accuracy of the fraud detection system.	Admin can generate and download reports on false positives, false negatives, and overall accuracy.	High	Sprint-3
		USN-2	As an admin, I want to view a dashboard summarizing all detected fraud attempts in the past month.	Admin can view dashboard with summaries, charts, and details of fraud attempts.	Medium	Sprint-3