

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	17 February 2026
Team ID	LTVIP2026TMIDS57934
Project Name	Online Payments Fraud Detection using Machine Learning
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Transaction Monitoring	Capture transaction details (amount, time, location) Real-time transaction validation
FR-4	Fraud Detection Engine	Run ML model on transactions Assign fraud risk score
FR-5	Alert & Notification	Send alert to user for suspicious activity

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should provide an intuitive interface that allows administrators to easily monitor transactions and fraud alerts.
NFR-2	Security	The system must protect all user and transaction data through encryption, secure authentication, and access control mechanisms.
NFR-3	Reliability	The system should operate continuously with high availability to ensure uninterrupted fraud monitoring.
NFR-4	Performance	The system should process and classify transactions within a few seconds to support real-time fraud detection.