

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

Date	15 February 2026
Team ID	LTVIP2026TMIDS73723
Project Name	Online payment fraud detection using machine learning
Maximum Marks	4 Marks

Functional Requirements:

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

Date	31 January 2025	Team ID	- SIM/2025/FD/01
Project Name	Online Payment Fraud Detection System		
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 ▶ Registration through LinkedIn
FR-2	User Confirmation	▶ Confirmation via Email ▶ Confirmation via OTP
FR-3	Transaction Data Input	▶ Input Transaction Details (Amount, Date, Time, Location, etc.) ▶ Import Data from CSV File (for Bulk Testing)
FR-4	Data Preprocessing	▶ Data Cleaning (Handling Missing Values) ▶ Feature Scaling & Encoding ▶ Data Transformation
FR-5	Fraud Detection	▶ Model Training using ML Algorithms ▶ Transaction Classification (Fraud / Legitimate) ▶ Real-time Fraud Prediction
FR-6	Result Output	▶ Display Prediction Result ▶ Fraud Alert Message ▶ Generate Report (Optional)

Non-Functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Simple and User-friendly Interface
NFR-2	Security	Secure User Data and Transaction Information
NFR-3	Reliability	Accurate Fraud Detection with