

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

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| 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)

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|---------------|--|---------|------------------|
| 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 | <ul style="list-style-type: none">➤ Registration through Form➤ Registration through Gmail➤ Registration through LinkedIn |
| FR-2 | User Confirmation | <ul style="list-style-type: none">➤ Confirmation via Email➤ Confirmation via OTP |
| FR-3 | Transaction Data Input | <ul style="list-style-type: none">➤ Input Transaction Details (Amount, Date, Time, Location, etc.)➤ Import Data from CSV File (for Bulk Testing) |
| FR-4 | Data Preprocessing | <ul style="list-style-type: none">➤ Data Cleaning (Handling Missing Values)➤ Feature Scaling & Encoding➤ Data Transformation |
| FR-5 | Fraud Detection | <ul style="list-style-type: none">➤ Model Training using ML Algorithms➤ Transaction Classification (Fraud / Legitimate)➤ Real-time Fraud Prediction |
| FR-6 | Result Output | <ul style="list-style-type: none">➤ 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 |