

Project Design Phase
Proposed Solution Template

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| Date | 17 February 2026 |
| Team ID | LTVIP2026TMIDS57934 |
| Project Name | Online Payments Fraud Detection using Machine Learning |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

| S.No. | Parameter | Description |
|-------|------------------------------------------|------------------------------------------------------------------------------------------------|
| 1. | Problem Statement (Problem to be solved) | Online payment fraud leads to financial loss and reduced trust, requiring real-time detection. |
| 2. | Idea / Solution description | ML-based system to analyse transactions and flag suspicious activities instantly. |
| 3. | Novelty / Uniqueness | Adaptive models that learn from new data to improve accuracy and reduce false alerts. |
| 4. | Social Impact / Customer Satisfaction | Improves payment security and increases customer trust in digital transactions. |
| 5. | Business Model (Revenue Model) | Subscription or usage-based SaaS for banks and fintech companies. |
| 6. | Scalability of the Solution | Can scale to large transaction volumes using cloud-based infrastructure. |