

## Project Design Phase

### Problem – Solution Fit Template

Date	
Team ID	LTVIP2026TMIDS40243
Project Name	Online Payments Fraud Detection
Maximum Marks	2 Marks

#### Problem – Solution Fit :

In the Online Payments Fraud Detection System, the problem–solution fit is achieved by identifying a major concern of digital payment users and financial institutions — fraudulent online transactions causing financial loss and security risks.



#### Purpose:

- Solve the problem of rising online payment fraud using an intelligent and automated machine learning approach.
- Enable faster fraud detection and reduce financial loss by providing real-time prediction results through a Flask web application.
- Improve user trust and transaction security by identifying suspicious transactions instantly.
- Increase system reliability by handling large-scale transaction data (Kaggle dataset – 6.3M

records).

- Understand current fraud patterns and transaction behaviours to continuously improve detection accuracy for online payment systems