

Project Design Phase-II
Solution Architecture

Date	23 october 2023
Team ID	Team-593390
Project Name	Online payment fraud detection using ml
Maximum Marks	4 Marks

Solution Architecture:

1. Finding the Best Tech Solution:

- In our architecture, we are utilizing technology to address the business problem of online payment fraud detection.
- Machine Learning (Classical ML methods) is being used as the primary technology solution to detect fraud, showcasing a thoughtful choice of technology.

2. Describing the Structure and Characteristics:

- our architecture outlines the structure and behavior of the software components involved in the fraud detection process. It describes how data flows through various stages and checks.

3. Defining Features and Requirements:

- The architecture defines various features, including data input, transaction processing, fraud detection, and transaction feedback.
- It also highlights key requirements, such as the need for real-time processing and fraud detection, as well as the conversion of transactions to images.

4. Providing Specifications:

- Our architecture provides specifications for how the solution is designed and managed, including the role of Machine Learning in fraud detection and the steps involved in handling transactions.

5. Communicating with Stakeholders:

- The architecture serves as a communication tool for project stakeholders by clearly illustrating how the technology solution addresses the business problem.
- It outlines the flow of data and decisions in a transparent manner, which aids stakeholders' understanding.

Solution Architecture Diagram:

