27 | Credit Card Processing

1.1 Purpose: Need for secure, efficient system to process credit and transaction.

1.2 Scope: System will handle secure transactions, refunds fraud detection

1.3 Problem statement: Enhancing customer security & customer satisfaction

2.) Functional Requirements
2.1. Authentication — System authenticates the users
2.2. Database Management — It manages user data, credit card
2.3. Refunds — It allows refunds
2.4 Fraud detection — System detects fraud activities
2.5 Data Encryption — Private data is encrypted.
2.6 Reporting System — It provides user to report any abnormalities

3). Non-functional Requirements
3.1 Reliability — Ensure 99.9% uptime to avoid disruption
3.2 Maintainability — Ensures system maintainability
3.3 Data Integrity — Ensures transaction data integrity
3.4 Backup & Recovery — Keeps backup of all data
3.5 Security — System should keep user & bank data private

4) Domain Requirements
Banking Interface — Provides an interface for processing
Payment Gateway — provides users an option for
Customer feedback — Takes customer feedback

5) Performance Requirements

5.1) System should handle upto 1000 users at same time.

5.2) ~~Stock~~ Customer details should be encrypted

5.3. Booking and verification shouldn't take more than 2 sec.
Processing

6. Design Constraints

6.1. System should be compatible with existing technology.

6.2. It should follow security protocols to prevent unauthorised access to system

7. Preliminary Schedule & Budget

Project is expected to take 3 months with a budget of $1500.