Implementation: Application should be based on language that is comfortable for developers.

Rules and policies: There must be proper rule on check-in and check-out time, age-constraints for the customers.

Credit Card Processing System:

1. Introduction

1.1 Problem Statement:

Credit card processing system through offline involves merchant collect ordered information about credit card, then taking down in database. It takes time to manually enter details and storing on-site.

1.2 Scope:

Making this system completely software which ensures secured storage of data, ease of maintainance and availability

2) Requirements

(2.1) Functional requirements:

→ Transaction authorization: Validate card number, expiration date, CVV & address.

→ Identifying the card through chip & verify the validity of the card by accessing the database of credit card user.

→ Fraud detection: Cross-check transactions for unusual patterns based on user history

→ the Enable partial or full refunds for authorized transactions.

(2.2) Non-functional requirements:
→ Secure and encrypted transaction
→ Performance: System should handle large nos of transaction per second during peak times & normal response time.
→ Audio responses to achieve, to assist visually-impaired individuals.
→ Simple and detailed transaction statement.

(2.3) Domain Requirements:
→ Responsive user interface for mobile as well as for desktop user.
→ Merchant integration: for point of sale system to accept credit card system payments.
→ Fraud Help-Desk Integration.
→ Cardholder Self-Service.

Schedule:
Requirement Analysis (1 Month), System Design (2 Month Development (3 months), Testing (2 Months), Maintainance and Support (Ongoing).

Hotel Management:

Budget: Personnel Cost = ₹98,000, Infrastructure Cost: ₹8000, Software Tools = ₹3,000 Total = ₹1,09,00

Schedule: Requirement Analysis (1 Month), System Design (3 months), Development (4 months) Testing (2 months), Maintainance and Support (Ongoing).

Credit Processing System

6 Design Constraints

   Accessibility: Software must be accessible for p mentally impaired users.

   ~~Technology~~ Proper ~~rule~~ specification of rules and regulation.

8 Preliminary Schedule and Budget. 6 months - 1 year

   8.1 Time: System is well prepared within scheduled time.

   8.2 Budget: Over-spending of budget must be avoided. where budget is 5,00,000 (calculated ~~under~~ by LOC)

RS
D&D
V&V
SE

8.3 ~~Schedule~~: Software tolls cost = ₹3,000
        Infrastructure cost = ₹8,000
        Personnel ~~cost~~ = ₹48,000
        Miscellaneous Cost = ₹ ~~1,21,000~~ 3,000.
        Total Cost = ₹ 1,21,000.