ii) Credit Card Processing System

Problem Statement:
It aims to provide secure, efficient and reliable method for handling credit card transaction for online services.

Scope:
→ Process credit card transactions gateway
→ Provides real time transactions tracking including payment status and Points earned for every transaction done

Functional Requirements

→ Transaction processing: Should securely capture the card info and process transactions

→ User Management: Should allow users to create and manage their accounts

→ Reporting: system should generate reports on the transactions that are completed

Non Functional Requirements:

Product: Performance, security, availability and usability

Organizational: Compliance, maintainability, documentation and support

External: Interpretability, 3rd party integration

Domain:

→ Transaction processing — User Authentication, fraud detection and tackling.

Design constraints:

* Hardware constraints: System must be compactible with the current server, and other hardware.

* Implementation of a secure hash algorithm for the secured storage and confidential info.

Preliminary Budget:

- Estimated lines of code = 20,000
  Cost per line of code = ₹ 20
  Total cost for desired loc = ₹ 20, 20,0000
                           = ₹ 4,00,000

Overview: It is used to streamline various managemental operations within the hotel.

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