9) Credit Card Proussing some freterile for dad some

Problim' Statiment:

The oxisting ordit card prousing system laves efficiency & security measures unding to potential fraud , sisty. & customer dissatification. An upgraded credit card prousing system is imporative to enure seamles transactions, onhana suwrity & maintain customer trust

1. Introduction

1.1 Purpose:

especial : willies to fine authority. The purpose of ordit card prowsing functionality is to enable seamles of secure, payment transactions for notel. suspivations, bookings, & other devices offered by the hotel.

1.9 8 cope This Section outlines the muliirements & specifications for integrating credit cord prousing capabilities into the noted mangement softward. It includes handling payment authorizations, proussing transactions excurally & generating payment succipts.

1.3 overview.

The credit card procusing functionality will allow gust, to make payments using oredit or dibit cards for Erricus sundered by hote 1. It will integrate with payment gativay soulces to sicurily proces transactions S ensure comptiance with industry standard for data succeity.

- 2. General Description

 Puthorization of credit and Inspection
 - · Authorization of credit card transactions in real-time "
 - · suttlements of transactions, including capturing funds *
 & generating recipts
 - · Maragement of customer accounts & payment methods
 - Integration with payment gaturous & merchant survices providers.

3. Functional Requirements

- · validate credit cord information
- · Transaction processing
- · Hardle different type of transactions
- · Payment Receipt generation
- · Handle everys & exceptions during transaction
- · Generate & email payment sucipts to quests upon sucusful transactions
 - · Provide Real-time update on transactions status ...

4. Interface Requirements

- · Payment gaucoay AP's for transaction processing
- · user interface components for entering & validating credit cord details
- · Email survice for sending payment succepts to quests

5. Performana Raquirements.

- · Transaction processing time: < 5 suconds
- · Bystem availability for procusing payments: 99.99.1.
- · sicure transmission of credit coud data using encryption protocols
- scarity Standard (PCI DSS) for handling cardholder data.

6. Design constraints

· integration with writified payment gateway provider

· use of tokinisation for storing & transmitting survivire coordholder data sicurily

· compilance with sugulations of standards governing .

7. Non-functional attributes

· sawrity: Encryption of card during transmission

· Puliability: Fault-tolerant wichitecture to ensure.

· Scalability: Ability to handu a high rolume of payment transactions during peak periods.

· compliance: Adherence to per DSS suguivements for data securiby.

8. Preliminary Schiduli & Budget

The integration of credit cord processing functionality is estimated to take a months with an additional budget of \$20,000. This includes duelopment, testing and cutification processes sugestized for compliance with industry standards.

Solution in the second second

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