Credit Card Processing (cc). Problem Statement: The existing credit card processing system lacks efficiency and security measures, leading to potential fraud risks and customer dissatisfaction. An upgradal credit card processing system is imperative to enure seamless transaction enhance security and maintain customer trust. called it is a set of the contract of second the contract 1. Introduction 1.1 Purpose of this document. The purpose of CCP functionality is to enable seamless and secure payment transactions for hotel reservations, bucking and other services offered by the hotel. 9.2 Scope of this Document: This section outlines the requirements and specifications for integrating (redit and processing capabilities into various softwares. It includes handling payment authorization, processing trans Fchions and generating payment receipts. 1.3 Overview The credit care processing functionality will allow quests to make payments using credit or debit cards for services rendored by various software. It will integrate with payment genteway services to securely process transaction.

2. General Description The credit card processing system facilitates the following unettions: - Authorization of credit card transactions in real time.
- Settlement of transactions, including cophering finds and generating receipts. - Management of customer accounts and payment months 3. Functional Requirements. · Payment Authorization - Validate credit card information provided by quest. - Verify card holders identity of authorization · Transaction Processing -Initiate payment transactions securely through inter grated payment gateway services. - Harsle different types of transactions leg: author -ization, capture, refund) etransaction Status Monitoring! - Provide real-time capitales on transaction status (approved, declined pensing). - Handel errors or exceptions during transaction processing securely. Interface Requirements: The credit card processing functionalities will interact with: interact with: · payment gateway API's for tran processing.

· User interface components for entring of validation credit card details. · Finail service for sending payment receipt to

5. Performance Requirements . Transaction processing time < 5 seconds. · System availability for processing payments 99.95%.

uptime
. Secure transmission of credit and data using encryption protocols. 6. Design Constraints hodo · Integration with certified payment gateway provides. · Use of tokenization for storing and transmitting sensitive cordholder doubte securely. · Compliance with regulations of standards governing electronic payments and data security. 7. Non-functional attributes · Security: Enemption of credit and data during transmission and storage. · Reliability: Fault-tolerant architecture to ensur uninterrupted payment processing · Scalibility: Ability to handle high volume of payment Hansactions during peak periods. 8. Preliminary Schedule and Budget: The integration of credit cold processing functional -lity is estimated to take 2 months with an additional budget of \$20,000. This includes deva -lopment, testing and certification process required. for compliance with industry Aandard.