PAGE NO : DATE: 5/4/24 2 + Great card Processing Rharoblem Statement: The cruiting credit card processing system locks el - cy and recurity measures; leading to potential fish risks and customer dinalifaction. In applaced credit and processing system is imperating to ensure stamles transactions, anhance recurdy of maintain customes bad 1. Introduction 1.1. Purpose of this Document The purpose of this document is to enable learner and recure payment transactions for hotel reservation booking and other services offered by the hotal 1.2. Supe. This section outlines the requirements and specifical - 1 for integraling credit card procusing capabilities in reprious refluere septeme. It includes handling payment authorization, processing transactions securely, and generally payment necepti. 1.3. Oversiew The credit cood processing functionality will all quests to make payments using Veredil or debit card for services rendered by the roflucares. It will integ to with payment galling rewriter to securely process Iranvactions secured and ensure complience with industry slandweds for data securely

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2.	Cynaal Decription:
1	- Authorization of usell cord transactions in seel-bins - sellement of transactions, encluding containing funds and generalizing receipts
	- rellement of transactions, excluding capturing funds
in	and gendaling receipt
To the same	- Management of customer accords and payment
	metheri
	- Integration with payment optimary and merchant
	services promoters.
-	7 12 1 D . A.
1	Functional Requirements:
7	Payment Authorizations
1	+ Validate credit card information provided by the
-	* Verily concluded identify and outhorization for the
	* Verify cordholder identify and authorization for the
*	Transaction Processing.
1	+ Indiate payment transactions securely through integlated
	payment godenicy urvieu
	* Handle different types of transactions (e.g., authorization,
	capture refund as her hold sloff policies.
*	Transoction Status Monitoring
	+ Provide real-time applates on transaction status Capprond,
	declined, pending to hotel staff
	+ Handle error or exper exceptions cherry transaction
19	processing gracefully.
*	Payment Recipt Generation
-	+ generate and email payment receipts to quest upon
	successful transaction completion
	+ Julude transaction details such as amount, date,
	payment melted, and confirmation number

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4.	Interface Requirements
	* Payment galeway APIS for transaction provincing
	* Payment galeway APIS for transaction processing  * User enterface components for entering and validation
	* Emoil service for rending payment recepts to gunle
5.	Performance Regenrements
	+ Transaction processing time: 5 seconds
	* System avoidability for processing paymonts. 17,94%
	+ Transaction processing time: < 5 seconds  * System availability for processing payments: 99.99%.  + Secure transmission of credit card wring encryption  protocol.
	+ compliance with payment card industry data secus slandard (PCI DSS) for handling cardholder data.
7.	
he.	Derign Courtraints
	+ Integration with certified payment gatemany promidess  + Use of tokenization for storing and transmit
	servicine cardholder data securely
	+ Compliance with regulations and standards gover
	- ng electronic payments and data securely
7.	Non-Functional Attributer
	* Security: Excryption of credit card data during
	transach Transmission and Morage.
	* Reliability: Foult - toleant architecture to convere
	- interrupted payment processing.
	+ Scalability: Abelily to hourdle a high wolume of payme
	Control on portions
	* Compliance: Adherence to PCI DSS requirement for data security and compliance with relative regulations

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8.	Belininary Schedule and Budget:
	Belininary Schedule and Budget:  Jer integration of credit peard processing functionality is estimated to take I months with an ladditional budget of \$20,000. This encludes development, testing and carlification processes required for compliance with includery standards.
	cuith inclustry standards.
- 3	101
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