system \* Cri get of J. Pro

Credit Card Processing

I Problem statement

The existing credit card processing system lacks efficiency and security measures, leading to potential fraud risks and customer dissatisfaction. An upgraded credit card processing system is imperative to ensure seamless transactions, enhance security a maintain customer trust.

2. Introduction
2.1 Purpose

The purpose of credit card processing functionality is to enable seamless and secure payment transactions for various services provided by various plat forms.

2.2 Scope

This section outlines the requirements of specifications for integrating credit card processing capabilities into various softwares. It includes handering payment authorizations, processing transactions and generating payment receipts.

The credit card processing functionality will alow quests to make payments using credit or debit cards for services rendered by various coftware. It will integrate with payment gateway services to securely processes transactions.

functional Requirements.

· Payment authorization

- validate credit cand information provided by guest

	PAGE NO: 6 DATE:		3		
	-verity and hader I dentity a authorixation.	6.	Desig	D Con	strai
	· Transaction processing.		· TD	tegra	Pion
	- Instate payment transactions securely through		Pic	vider	S.
43.25	integrated mument agreement Services.	17041 5	1.00	seot	- 101
van:	- Handel different types of housellow ceg:	حبنتيه	sen	seby	eax
NA	authorixation, capture, refund.	10-1701	1	ompl	na
1997	· Transaction Status monitoring		1 30	verns	
132.5	- Provide real-time updates on transaction	YATIST	1. No	m-f1	incl
	the shake approved, declined, penaling).	-		· seci	
	- Handel errors or exceptions during transaction	-		wino	
	processing securley.	+		Relia	
	· Payment reclept generation	+			
MY.	- Generate and email payment recipts to guests	+		مدسوم	
4	upon successful transaction completion:	+	- 11	scale	
111	supposition some supplied the supposition of	+	2 24	ayn	
4	Interface requirements.	+		· COL	
	The credit card processing functionalities will	+		forde	ota
dir.	interact with:	+	10.00	7 1 1 2	
1	· payment gateway APT's for tran · processing	1	8.	Presi	
1	· user interface components for entering & val	-		The	e ir
	dating credit card details.			tion	المله
	Language to continue trace job	to l		lad	dib
	· frail service for sending payment receipts		4.4	11	relo
	guests.	1		11	
0 (1	( Line of Language and Lines of the Control of the	-	1270 X	110	gui
5.	Performance requirements.	- 1	MIDIN	-	
ent	· Transaction processing time < 5 second	4			
100	· System availability for processing payme	nts			
	Oc. 20 1/ 1/2	1			
	99 99 / uptime wat 22 mag uts watch			1	
	· Secure transmussion of credit card data i	uing	grander.	3. 1	1
	encryption protocols.	, ,	1933	WELL	20
	· PCI DSC for handeling cardholder data.		-0 N	11.	1
	and and ustrance and arounds		1		1
					1
Ш					11

Design Constraints · Integration with contified payment gateway · Use of tokenixation for storing & mansmitting senselive cardholder data securely. · compliance with regulations & standards governing electronic payments and data security 7. Non-functional attributes · Security: Encryption of credit card data develog transmission a storage. · Reliabluty: fault - tolerant architecture to ensure uniterrupted payment processing.

• scalability: Ability to bandel high volume of payment transactions during peak periods. · compliance: Adherence to rci oss requirement for data security. 8. Presiminary Schodule and Budged The integration of credit card processing functionally is estimated to take 2 moths with an additional budget of \$20,000. This include development testing and coutification processes required for compliance with industry standard