CREDIT CARD PROCESSING GYSTEM Date · Peroblem Statement of ceredit card transactions are ca major mode cof spayment mordanide, but the sprocess unvolves multiple challenges alke fraud idetection, iteransaction idelays, isecurity ousks, & escalability usues. The igoal cof other System is to ideign (a iscure, ireliable of cefficient coudit - card sprocessing system that can cauthorize & couthentication. @ Purpose 3- The purpose of the ceredit card processing System is to Sproside la secure fast & cilliable splat form ... · Safe Gransactions: Purotect cardholder data using cenculation, cauthentication (PIN/OTP) & scompilance with PCI DSS standards. · Efficiency : eduthorize, couthenticate, f Settle payments un vieal-dime (<2 sec) · Forand Presention: Use Al/ML ito idetect unusual cor courpicion transaction of sprenent financial fraud. · Integration : Provide APIS for merchants & bank ito integrate with the Spayment system · Turansparency + Scalability. 2) Scope o- The CCP System · Process contine + coffline card spayments securely. · Supposed multiple card types (Visa cote) · equithenticale carotholders using PIN/OIP · Detect & specement fraudulent deransaction. · Puravide untequation APIS for merchant banks & Spayment gateriays.

	DatePage
3	Oxerview 3 - User 3 - Cardholders of merchants
131	unitial wantactions
	System : - Flandles cauthorization; couthentication,
	by the both
-	Bank/Issuer - Validates funds of Epiocess Epayments. eddmin - Manages account, system monitoring
-	eddmin - Manages accounts, system monetours
	f compliance viebouting.
	Marin Car
4	General Rescription :- Users · Cardholders:
3	anitate iteansactions, make Sourchases.
	Merchants : Accept Spayments & creceive
	Settlements o
	esdmins & Manages fraud edetection, compilar
	Talansación manitoring
	Banks/claterings Verify accounts, capprose
	- ayaa setus thanfactions.
-	System · Keal + time payment cauthorization
	· Forand edetection using AI/MI canomaly
	caltection:
	· Se cure cenceufation (8SL/TLS, AES)
	andequation with panking APIS
1	· Tuansaction shistory + recepoulty-
a	The state of the s
5)	Function Requirements: -(1) Teransaction Perocessing
	Verity card iditails f balance • explosore/idecline turans.
	edebuove / declino trans.
	o il la di a l'occurre monte p

· AI - Spased canomaly editection for unusual

· OTP, CVV, PIN verification.

2) Forand Retection

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	Transfer funds between	ussuly & auguster
	DAME	
	· Igenerate esettlement outo	uds.
4 Uses	er - Management	
1	· Registry Misers of merchants	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	· Maintain ituansaction	history.
(5) Reb	sorting	1
	- C. A. C. A	an o Must
(6) Non-	- Functional Reg 3 - · Peulou	Mance of Texas
1	HOCOLL TURMINITUDIES CHARLES	***
· 20.5	westy & PCI DSS competance	
1	A A CO OTA CONTRACTOR CONTRACTOR	
• Scal	lability: support millions	Log. Commovati
11140	OUIS A STOCK Y	
• Usou	belity: Simple 111 for me	*
ca	udholders.	
G 1.1	Acco Provincements a Hung	Anterdace (11)
T grown	eb 4 mobile darhboards	Pari 118084
·	erchants	god users 7
	unterface: Rest APIS for	image and I be ab
	eduare Interface : POS itery	
11000	the state of the s	rurum, NIPIO
(8) Perfo	rmance Requirements · Res	bonse Tame:
< 2	RSEC / transaction.	•
· Fire	ruid idetection caccuracus =	> 950/.
· Syste	ruid idetection caccuracy: = Em theoughput: \geq 10,00 Second.	Total and I
	second.	- Locar Moleculany
	\ 	
11		1 3 1

Date Page (3) Rusign Constraints & - Must comply with PCI DSS security standards. - Compatible with iglobal card intheories (visa, Rupay). Regulatory combidance (KYC/+ML). Schedule & Budget & - Eistimated ctome ~ 16 weeks. Estimated Budget ~ \$ 90,000' and the first production of the first production of the and the second of the second o The second section of the second seco A Company of the second of the A grant of the contract of