	I	Credit cased processing.
1		Mayor and power out to harmones and
esmalled	1.	Introduction:
stored	a.	Purpose:
		It is to define the software requirements for a
Ponsile		credit card processing. This system facilitates secure
		authorization, eapture, extlement of credit card
	- VIELE	transcactions for merchants.
		and the same of th
poking	6.	Document Convention:
		Bold texts are used for section cheading of
eck-In		interface labels. Bulleted lists are used to
Ap L		listing actions, options or steps.
		January March of the Control of the
	c-	Intended Audience & reading suggestions.
,		-> Project manges - to understand the project Scope,
ecs us ces		deliverables and system constraints.
on arrival	274.05	-> Software Developers - to design, implement and
	300	integrate the system components.
		-> All readers should begin with latablections
		understand for eystern process, purpose, copl.
		THE PARTY SURE AND SOURCE
	1	Project cope:
	α.	Project scope:  > to authorize transactione in real-time.
		> void or refund transactions
		> void or require to for collement.
		-> capture authorized transactions for extlement.

				-000
e.	References:			
	-> Visa and master card ATI Integration guide.	e.		esign
	> IEEE 830-1998: Decommanded for SKS.	10.5		us.
			a	ato
2-	Overall Description:	-		us.
a.	Broduct Perspective:	0		10
1	It will act as our intermediatory between			Po
	merchants, issuing banks, acquiring banks and			C
	card netropsks.			
	is toursenest Consultations		of of	A
b.	Product Functions:			
	- Validate and tokenize ciedit cased data.	-		-
	- Authorize cledit card transactions		Bar	340
	- Process refunds and void.	1	codi	100
	E Introded du mone a seading ideals	1		3.
c.	User classes and characteristics:	1	0	
	Merchant- Initiates and manage transactions.			
	Admin - Manages user roles, audits and compliance			
	Customes - Initiates payment via meschant ot.			
١	All sandare charted begins not to debutered			
- a ·	Operation Environment.			
	- Web seever with HTTPS			
	-Backend services (Node js, pytam, Java)			
	Patabases: MySQL.			

e Design and Implementation Constraints Must comply with PCI. Pokenization of caedit caed data is mandatosy. f. User Documentation Integrate API avide It must contain Admin Postal Manual. It should have compliance checklist. g. Assumptions and Dependencies: External payment galeway is available and functional Issuer and acquirer services are orline and compliant 3. Specific Requirements. a Functional Requirement Card Validation - The system shall validate the format of card number. Colonization- the system shall tokerize eard data before storage or transmission Authorization- The system shall authorize eard payments via a third party payment gateway. b. Non- Functional Requisement. Security - the system shall encrypt all sensitive

data wing AES. Performance - the system shall

eupond to authorization elquest within 2 seconds.

Availability - the system shall chave an uptime of 99.9% per marth.

External Interface Requisement

web-based Admin dashbased and Rest ful API

for integration and transaction viewer and

expost tool. Hardware Interfaces too terminal

via USB, Serial or Ethurnet.

d. Appendices:

Authorization- Initial approval of a payment sequest. Capture mous finalizing a previously authorized transaction. Refund means returning funds to the carolholder.

External pregness arbury

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