merchants will very on it for operation al

	workflows and reporting, while auditors
	will use it for compliance and
	monitoring.
	Chippodi
1.4	Scope
	The credit card processing system (CCPS)
3077 pg	enables se cure authorisation, processing and
3100	semement of wedit cord transactions
(0)	between merchants banks and customers.
a widon	It ansures rand detection, compliance with
	payment standards and high system
	availability. The system also provides reporting
	dispute management and multi-currency
	support for seamless fahanual operations.
DOLES UP	I bod text is used for seculon tilles and in
1.2	References
1.2.1	PCI-DSSC Payment cord industry pata security
600	the stand and book at the book and
1.5.2	
	Fransaction Hessaging
115.3	PBI auiddines for Electronic Payments.
	Stramaning anthony anthony will dell
2	overqu Description
	in a mended andience and healthy sure
2.1	Product Perspective in American
6	The Gedit Card Processing Bystem is a regitine
117.00	mansaction platform that integrates with
51	merchanits, a equirer banks, 1384en banks,
	and cord networks, it acts as an
	in termediary to validate authorise and
be	process parments. The
	process payments. The system supports pos terminals and online platforms, it ensures
	plactoms, it ensures

Decure communication and compliance with
payment stondards in 11
1, hart strip se stackbant mice : 1858 quiss
Product functions (1921)
The system authonzes and settles credit
card transactions, validates card details, and
manages fund trenspers it provides preud
detection mechanisms and ensures secure
data hondling. It generates reports for
merchants and banks it also supports
dispute management and multi-currency
mansactions son emphasis cea-139
pe of a studention fifthe ones book
user classes and characteristics
Merchants! Initiates and track transactions
though POS iterminals or online payment
portais, new settlement reports and handle
austoner payment issues
cardnolders : use of the system indirectly when
making purchases, requiring secure fast and
reliable authorisation of payments.
Bank Staff - Monitor and venty mansactions,
manage settlements, handle chargebacks
and ensure compliance with regulations.
system Administrators i Maintain system
availability, manage user roles, monitor security
and perform troubleshooting.

Operation en uronment 2.4 The system will run on secure servers equipped with Hardwore Security Hodyles (HSM) and support merchant POS terminals as well as banking infrastructure 1th will operate on Linux or windows servers, use relational doctabases with energyption, and provide web portais and Apis for integration communication will rely on high speed energited TCP/1P connections wim 1308883 messaging. The encironment must comply with PCI-DSS standards, use TLS 1.3 Por security and ensure 24/4 availability with 99.99% uptine: observations de asserts as as a l'él Hereinants Indices and made transactive 2.5 Design and Implementation constraints The system must comply with PCI-DSS standards and banking regulations it must use 180 8583 messaging for transaction communications. All sonsitive data should be encrypted during storage and transmission. The system must support real-time Processing with a response time under three seconds- It should no on secure skalable server in mastructure and ensure compatibility with existing bank and merchantersystems money

Mud aning -



2.6 user Downer-tation The system will provide a user manual for merchants banks and administrators with Step-by-step instructions for operations. online help and fags will be available within the web portal 'API downer tation will be provided for technical teams integrating the system with Pos on e-commerce platforms 'Training guides and quick reference sheets will be supplied for staff and merchants of posterior PTIME EURIDINEVE DAISONS 2-7 Assumptions and Dependencies of 18 2.7.1 The card networks are always available for transaction routing 600 notesimenso 2.7.2 133 yer and acquirer banks maintain system uptime and reliable communication channels 2.7.3 merchants and banks have stable internet connectivity for real-time transaction processing some se de noide aut not se 2.7.4 cystomers enters correct card details dynng transactions. The system depends on third-porty payment 2-7-8 gateways and APIS functioning correctly. regulatory and compliance requirements 5.4.6 remain unchanged. 11508 moder 30 848 Securry certifications (SSL/748) are renewed and validat all times it l'es Emphose phose 100F-2081 hoss should by strok while out of 13.58 articles to enteriors to solve one 8 sonulous

	blad arigid Celd
3.	3 peaße requirements
-100° Insent	SON DELL'ES DE MORT PRES CASILLE STIT
3-11	functional requirement
3111	The system shall validate card details
niation s	including number, crv, expiry and balance
	beforeas authorisation
31.2	The system ishall authonses capture and
	settle transactions between merchants
	acquirer banks and issuer banks
Maria I	The system shall provide Brand detection
	by analysing transaction partierns and
	Pragging syspicious activity.
3.1. 4.	The system shall energy all sensitive
700	customer and transaction data during
	transmission and storage no so
3:105	The system shall generate daily, weekly
REAL PROPERTY.	The system shall generate daily, weekly and monthly reports for merchants
Shorac	
Shorac	and monthly reports for merchants
Shorac	and bonks and bonks
3.2	and monthly reports for merchants and bonks and bonks to the transmitted to the transmit
3.2	and monthly reports for merchants and bonks and bon monthly reports for merchants Hon Fun Lion as Requirements
3.2.1	and monthly reports for merchants and bonks and bonks and bonks Hon Fun wion ab Requirements The system shall process mansactions within three seconds apport at least
3.2.1	and monthly reports for merchants and bonks and bone to the merchants Hon Functional Requirements The system shall process mansactions within three seconds
3.2.1	and monthly reports for merchants and bonks and bonks and bonks and bonks and bonks and process mansactions within three seconds support at least 5000 mansactions per second during peak loads and per second during
3.2.1	and benks and process mansactions within three seconds apport at least 5000 mansactions per second during peak loads of the system shall per second during
3.2.1	and monthly reports for meret ants and bonks and participated and bonks and process mansactions within three seconds apport at least soon bransactions per second during peak loads and per second during peak loads and maintain an analysis apports at least apports at least soon bransactions are peak loads and maintain an analysis apports at least apports at least soon bransactions are second during peak loads and maintain an analysis apports at least appoints and peak loads and maintain and participated appoints and maintain and participated appoints and peak loads and maintain and participated appoints are per second appoints and participated appoints and participated appoints are per second appoints are per second appoints and participated appoints are per second appoints are per second appoints and per second appoints are per second appoints and per second appoints are per second appoints are per second appoints and per second appoints are per second appoints and per second appoints are pe
3.2.1	and bonks and ports for merch ants and bonks and ports for merch ants Hon Fun thon ab Requirements The system shall support at least Sood bransactions per second always peak loads of high availability uptime of for high availability The system shall comply with par bas
3.2.1	and monthly reports for merch ants and bents: Hon Functional requirements The system shall support at least Sold mansactions per second during peak loads bell naintain 99, 99% The system shall naintain 99, 99% uptimed for high availability The system shall comply with pc1- 088 and 180 27001 Seavily standards.
3.2.1	and monthly reports for merchants and banks Hon Fun thonal pequirements The system shall process mansactions within three seconds per second always peak loads of per second always peak loads of high availability The system shall maintain 99.89.1. The system shall maintain 99.89.1. The system shall comply with per bas and 180 27001 Seavily standards. The system shall scale to handle
3.2.1	and bonks Hon Functional Requirements The system shall process mansactions within three seconds per second during peak loads The system shall maintain 99,89% uptimed for high availability The system shall comply with par bas and 180 27001 Seaving standards The system shall scale to handle growing merchant and mansaction
3.2.1	and monthly reports for merchants and banks Hon Fun thonal pequirements The system shall process mansactions within three seconds per second always peak loads of the high availability The system shall maintain 99.89.1. The system shall maintain 99.89.1. The system shall maintain 99.89.1. The system shall comply with per bas and 18027001 Security standards. The system shall scale to handle



5.3	External Interface requirements
3-3-1	The system shall provide a web-based
	portral for merchants to new transactions,
	settlements and reports. To its interest
3.3.2	The system shall proude a bank admin portal
	for manitoring mansactions, managing !!
	disputes and generating compliance reports.
3.3.3	the system shall support Pos terminals
	Ar instore credit cord transactions.
3.3.4	The system shall interferee with 1334er
700	and acquirer banks to velidate and
-4-7-17/	Bette transactions, 1196 by
3.3.5	The system shall connect with card
	networks (visa, Mastercard, etc) for transaction
	authorisation and witing.
730	This document outlines the furtion
4	A ppen dices mandi previol on to
toppose	adian reduced entering, new best reader
4.1	Aspeciations party and los auto las viol
4-1.1	pu-033 - Payment Card Industry Data Security
	Standard souls mit borowites
4.1.2	Pos - point of scale
	CUSIVISVO S.I
4.2	Parare enbancements and morald sor
4.2.1	Al driver roud detection and mak storing
4.2.2	Blockchain-based settlement for faster
	and transparent transactions
4.2.3	
	Pace ID)