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62)	Credit Card Processing System
012)	
	Problem Statement: Design and implement a Great Courd
	Veoresling System that enables authorization, authorition
	and ensures a serve system.
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	S'RS Document:
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1.	Introduction de la landina de la la landina de la landina de la landina de la la landina de la la la landina de la landina de la landina de la la la landina de la
	1.1 Purpose of Pocument:
	This document specifies the seguramente
	required for the Credit Cord bracessing System (CCPS). It defining
	the scope, functionality, performance, and constraints of the
., 1	system to ensure secure, efficient , and establi procession of
	wedit card transactions.
	the said has should be distributed in a get the it is
	1.2 Scope of Pocument:
	The Credit Card Processing System (CCPS)
	and reporting of wedit coud payments. It will seve merchants,
	banks, cardholders, eneming rompleance with financial regulations
	(PCI-OS). The system will integrate with merchant POS systems.
	online portals, and banking returks
	of sont product of waring about and the second of the
	1.3 Overview.
	1) I I be a thing of the System will:
	Validate customer credontials
	Support regunds and concellations
	Maintain Tenansaction logs
	brovide reporting dashboards.

2) Creneral Description: The system raite as middleware between merchante and ipirarcial institutions. It captures charaction details very them regainst reard networks, ensures operade availability and perovide confirmation. Users unclude: · Mechants (initiate layment begunds)
· Cordholders (authorize payments)
· Barhel layment valeurys (approve settle punds) 3) Functional Requirements FRI Authenticate condholder using cond number, CVV, and OTP/PM FRZ Mulhorize transaction amount with usering bank FB3: Handle capprovals, declines, refunds, and reversels Fly: (renerate digital receipts and transaction IPs FRS: Maintain seine logs of all Bansaction FRb: Support multi-cuesery payments. 1= 127 begind reporting for merchants and learns 4) Interface Regimement User Interface: Web dashboard for merchants, payment page for cutors External interface : Integration with Pos terminale, mobile apps and online is API interfaces: REST APIS: for bank authorization and mental system 5) Performance Requirement System must handle up to 5000 transaction ( recons nesponse time for cutholization = 3 seconds " Uptime requirement: 99.9% availability.

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6) Design Constraints

Must complywith PCI-DSS standards

Energy all seneture docto

Follow ISO 8583 mercuse format for transaction enchange.
Limited to integration with Visa, MusterCoud, RuPay, and Amex returns initially.

7) Non-Functional Attribute.

Security: End to End encryption; brand detection heliability : Automatic poulores, redundancy

leability: Simple payment interface for view

Maintenabilit : Modular cuchiteit for easy upgrades:

Scalability: support growth in uses and transaction volume.

8) Preliminary Schedule and Budget

Requirement Agralysis - Zweeks System Pezigo - Birchs

Testing - Yweeks

Total = ~ 19 weeks

Budget:

Development Cots - ₹20,00,000

Nordnare / Infrastruter - 78,00,000 Security / Compliance - 75,00,000

Testing & maintenance: - 77,00,000

Total = 7 40,00,000