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CREDIT CARD PROCESSING SYSTEM Problem Statement: A credit cord processing System is designed to facilitate real time transacti - one between cardholders and merchants safely. The System must authenticate cord holder and verify the available funds. * Scope: It' Should Securely handle the credit and debit of the transactions. It must consists of cardholder authentication, easy transfer of funds. The System Should also support refunds and chargebacks, * Functional requirements: · Cardholden Authentication: Verity ? dentity by checking cood details using methods such as PIN, CUN, OTP Transaction Authorization: Check the availability of funds Pransaction Notification: Each time amount is credited or debited notificiation should be recieved Card Empiry and Renewal: Manage the expiration . and renewal process Froud Detection: Implement froud detection mechanic · Transaction History: Transaction details like date, amount and Status should be maintained Non Functional requirements: Performance: Transaction Should be completed in minimal time. Security: Include proper security & authoritication

Reliability: Ensure System is ovailable 99%.

with minimal downtime.

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· Usability: Usen friendly interface must be provided
· Data Integrity: Maintain consistency and

accuracy of transaction data.

Domain Requirements:

Transaction types: Support vouilous types of transactions including refunds chargebooks etc.

Handling multiple currencies: Support transaction in multiple curréncies for cross-border transactions.

Cardholder registration & Information Management Freuy cordholder registration must be handled smoothly and their information must be managed properly.

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* Overview. Credit card proussing system will enable merchants to accept, process & manage credit card payments. It will support multiple cord networks, provide froud detection, etc -

& General Pescription:

· Pronsaction processing: Real-time cord authorization and payment capture.

· Frand detection: Built-in tools for identitying and preventing froudulent activities.

Reporting: Prominction history and financial

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	Credit Card provising System Continuation
6.	Interface requirements
ę	User interface: Web and mobile interface for merchante
	to montox transactions
4	API Integration: Support for integrating with merchant
	De sites and pos Systems
•	Payment Gasteway: Interpres with card networks
	for authorization and settlement
в	Database: Seaure storage of transaction & customer,
	data in compilante with PCI - DSS
	Por frame at a Room franchis
7.	Performance Requirements
	Processing Pime: Authorization & capture within 2 second Scalability: Support for handling thousands of
	town lastions ner seemed
	Error Handling: Minimal error rate (loss than 0.01%)
	du sing peak transections.
2	Reliablity: 99.9% uptime to onsure constant availability.
4/	J
8.	Design constraints:
b	Security compilance: Adhere to PCI-DSS and encryption
	protocols for Secure + ronsaction
ල	Hardware Saftware limitations: Must integrate
	with existing pos and e-commerce platforms.
10.	
•	Dovelopment Pime: 8 months
٥	Potal cost: \$ 100,000 covering System development,
	Security and testing.
	System development - \$ \$ 50/C
	Security audits - \$ 30k
	Testing - \$ 20K.
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