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6. Delign Corretaints:

The system must comply with data perotection laws, such as GDPR. Integration

with payment gateways and other third-party services will require careful design.

7. Non-functional attributes:

(i) Security - Data encryption you rensitive injoination.

(ii) Reliability- The system should have

minimal downtime.

(iii) scalability - more accommodate future gerowker and demand.

8. Rueliminary Schedule and Budget Initial development is estimated to take 6 months

with a budget of \$50,000, including software requirement design phase (\$1000), design and implementation (\$15000), validation of testing (\$20000), evolution and maintenance (\$14000).

CREDIT CARD PROCESSING SYSTEM SRS.

1. Introduction:

1.1. Purpose of the document: This document outlines the requirements for a Gredit Card Processing System (ccps), which will manage the

authorization and settlement of oudit cand transactions 1.2. Scape of the document: The system will handle transactions such as authorizations; billing, beaud

detection, and secure payment processing Development will be aligned with industry standards for data

1.3. Drewiew: The cops will provide businesses

security and transaction speed.

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with the capability to process credit card payments securely and efficiently. It will integrate with banks and financial institutions for sreal-time transaction processing 2. General Description: The cops will be used by businesses to accept oredit card payments online or in-store. The system will handle transaction authorizations, orefunds, and chargebacks, ensuring recurity and compliance with PCI - DSS standard 3. Functional Requirements: (i) User Authentication (Merchants). (ú) Gudit Card Authorization and Validation (iii) Transaction Processing and Settlement (Ev) Refund Publessing (V) Fraud Detection Mechanisms (vi) Reporting and Auditing 4. Interface Requirements The system will intequate with point of rale devices and e-commence websites. The interface will communicate with banks and card networks for transaction approvals. 5. Poyoumance Requirements: The fixtern must process thousands of transactions per second with minimal latency Response times should be within milliseconds

for transaction approval on rejection.

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6. Design Constraints:

Must comply with Payment Could Industry Data Security Standards. Integration with various and networks and banking systems

a required.

7. Non-Functional Altributes

(i) Seavity-Must use tokenixation and

encuption for all transactions.

(ii) Pourability- Should work across different platjours

(iii) Scalability - Must handle increased transaction volume during peak times.

8. Preliminary Schedule and Budget Development is estimated to take 9 months

with a budget of \$100,000, considering entegration with banks.

pequirements phase - \$ \$5,000 Design and implementation = \$25,000

Vertification and validation - \$ 45,000

Evolution and testing - \$ 25,000