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Credit card Processing

1) Introduction :-

Purpose - It must provide a clear understanding about system's functionalities, system requirements and product ~~requirements~~ goals.

Scope - It outlines functionalities like transaction processing and fraud detection.

Overview - It enables safe transactions by authorization and reporting.

2) General description :- Functions include

* Transaction authorization - Validate credit card ditails.
* Process transactions and transfer funds.
* Fraud detection.
* Reporting transaction history.

User characteristic :-

* Merchants - Manage transactions, solve disputes, view reports.
* Consumers - Make payments.
* Administrators - Manage user accounts and system operations.

Features :-

* Secure transaction
* Real-time processing
* Reporting

3) Functional Requirements :-

* User authentication
* Transaction processing
* Fraud detection

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* Reporting
* Dispute management

4) Interface requirements :-
* Payment gateways to process transactions.
* Fraud detection services.
* User interfaces to manage transactions and view reports.

5) Performance requirements :-
* Capable of handling large number of transactions at the same time.
* Response time should be less.
* It must provide real-time data of transactions.

6) Design constraints :-
* It must enable various payment methods.
* It must provide secure transaction process.

7) Non-functional attributes :-
* Security - It must implement strong encryption.
* Reliability - It must provide quick recovery from failures.
* Portability - It must run on various machines and platforms.
* Scalability - The system must handle increased number of transactions.

8) Schedule :-

Requirements identification - 3 weeks
Design - 4 weeks
Development - 5 weeks
Testing - 4 weeks