

II credit card Processing

1) Introduction

1.1) Purpose :- documents outlines the requirements for a credit card processing system (CCPS)

1.2) Scope :-> System will handle transactions such as authorizations, billing, fraud detection

1.3) Overview -> CCPS will provide business with the capability to process credit card payments securely and efficiently

2) General description's -> CCPS will be used to by business to accept credit cards payment securely and in-store

3) Functional Requirement

-> user authentication

-> credit card

-> transaction processing

-> refund processing

-> fraud detection

4) Interface requirement -> System will for devices and e-commerce websites the interface will communicate with banks and core network

5) Performance requirements -> System must process thousands of transaction per second with minimal latency. response times should be within milliseconds for transac approval

6) Design constraints \rightarrow Must comply with payment card industry Data Security standards (PCI-DSS) integrate with various card networks and Banking is required

7) Non-functional attributes

Security \rightarrow tokenization's

Reliability \rightarrow POS, mobile and web

Scalability \rightarrow transactions schedule.

8) Preliminary Schedule \rightarrow to take 9 months with a budget of \$100,000 considering integration with Banks and PCI compliance

Split

developing applⁿ
\$40,000 (4)

and from the total budget the split is

\$40,000
\$30,000

- 1) requirement analysis \rightarrow \$20,000
- 2) design & implementation \rightarrow \$30,000
- 3) verification and validation \rightarrow \$20,000
- 4) testing and Evaluation \rightarrow \$30,000