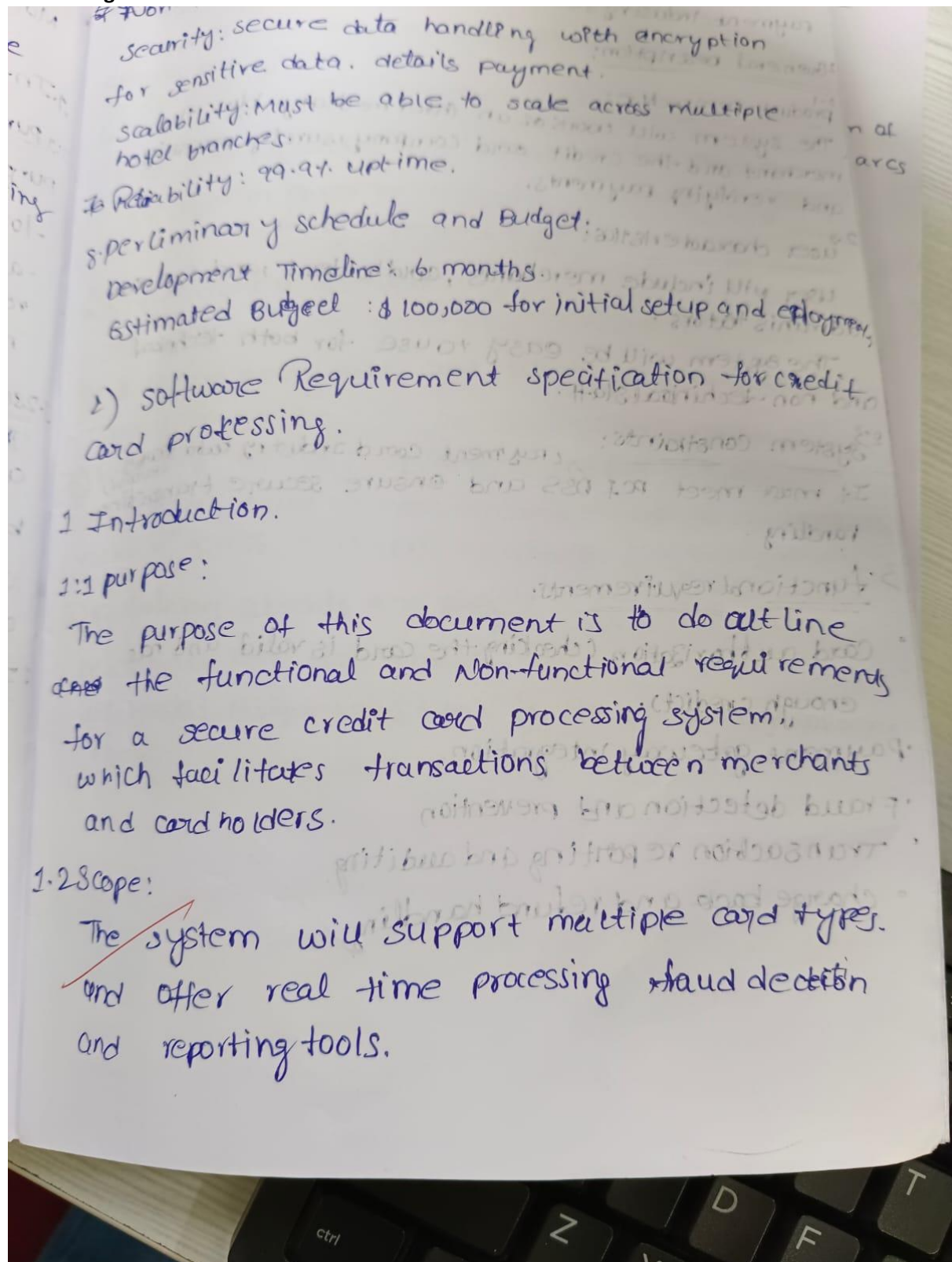


2. Credit Card Processing System:

Generating SRS DOCUMENT:



event con
-7 initial initia
large event -> will happen w

3) overview:

The credit card processing system will ensure smooth payment transactions for both online and in-person purchases. The system will handle authorization, settlement and reporting of transaction, ensuring compliance with payment industry standards.

2) General description:

2.1 product perspective:

The system will work as an intermediary b/w the merchant and the credit card company, surely processing and verifying payments.

2.2 user characteristics:

User will include merchants, cardholders, and system administrators.

The system will be easy to use for both technical and non-technical staff.

2.3 system constraints:

It must meet PCI DSS and ensure secure transaction handling.

3) functional requirements:

- Card authorization (checking the card is valid and has enough credits).
- Payment gateway integration.
- Fraud detection and prevention.
- Transaction reporting and auditing.
- Charge back and refund handling.

4) Interface

Web Ap

Point-o

5) Perform

Must

Support

during p

6) design

Must

The

with

7) Non-

Secur

End to

Card

8) Relia

Scal

volum

8) pred

revel

Est

Ph

4) Interface Requirements:

Web API for Integration with e-commerce platform.
point-of sale (pos) software interface for merchants

5) Performance Requirements:

Must process transactions in under 3 seconds
Support for up to 1000 transactions per second
during peak times.

6) Design Constraints:

Must comply with process standards for security

The system must be designed for easy integration
with third-party merchant system.

7) Non-functional Attributes:

Security:

end to end encryption and tokenization of credit
card information.

Reliability: 99.99% uptime to ensure availability.

Scalability: Must be able to handle a high transaction
volumes across multiple merchants.

8) Preliminary schedule and Budget:

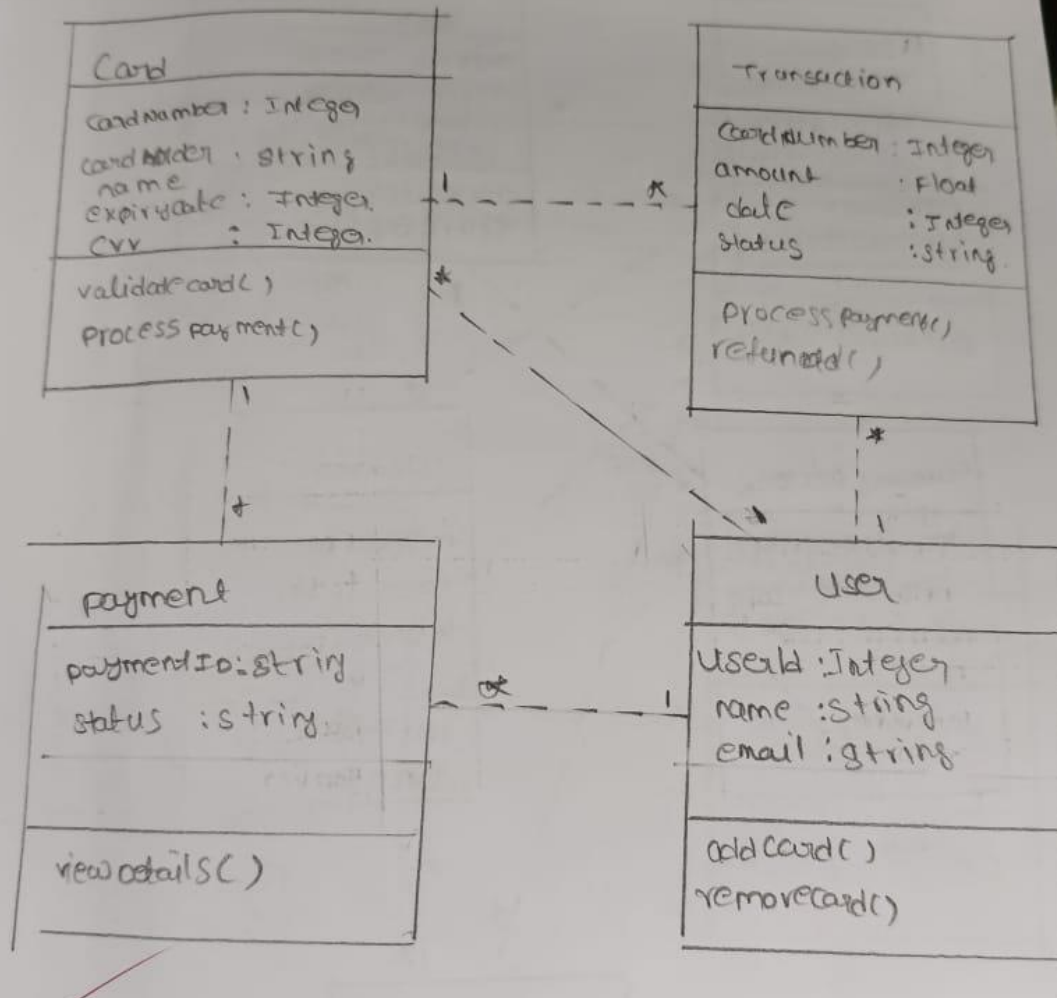
Development Time Line: 9 months

Estimated Budget: \$250,000 for the initial development
Phase.

Class diagram:

can be represented
as of states and
transitions

2) Credit Card processing.



Class diagram star UML:

Credit Processing System:

