Q. SRS document for credit card processing system:

① Introduction:

1.1 Purpose of this document: This document specifies the requirements for credit card processing (CCPS) aimed at processing, authorizing and selling credit card transactions efficiently and securely.

1.2 Scope of this document:
The system will manage transactions between customers, merchants, and banks including payment authorization, transaction processing, fraud detection & reporting.

1.3 Overview:
CCPS will streamline credit card payments and ensure secure transactions while providing real-time processing and data reporting.

② General Description:
The system will serve merchants and cardholders by offering secure and fast credit card processing. It will support multiple card types and banking regulations.

③ Functional Requirements:
- Transaction authorization
- Payment processing and settlement.
- Fraud detection and prevention.
- Reporting and transaction history.

④ Interface Requirements:
The system will communicate with external banking networks and user interfaces via secure API's and standard data exchange formats.

5. <u>Performance Requirements :-</u>
The system must process transactions within 1 second and handle peak loads and low latency and high accuracy.

6. <u>Design constraints:</u>
The system must process transactions within seconds and handle peak loads with low latency and high accuracy.

7. <u>Non-Functional Attributes:</u>
   - Security: High-level encryption for data protection.
   - Reliability: 99.99% uptime.
   - Scalability: Ability to handle high transaction volumes.
   - Portability: Support for multiple platforms.

8. <u>Preliminary Schedule & Budget:</u>
   - Estimated durations: six months for development & testing.
   - Estimated cost: ₹1000000 for development, testing & deployment.