Credit and Processing System 28/20 Problem Statement prople need a fast, secure and reliable wery process credit card payments, Current systems jace issues like fraud, delays and united reporting. The proposed Credit Caed Proussing System will provide secure transactions pand privention, real-time settlement and workensive reporting. SRS Dowment 1. Introduction 1.1 Pulpose The purpose of this document is to specify the junctional and non-punctional requirements of the Credit Could Processing System. It serves ou a guide for durelopers, testers and stakeholders to design, implement and validate a secure and efficient inedit eard transaction processing solution. 12 Scope The CCPs will enable merchants to accept credit and payments securely, authorize and settle fransactions with bein's payment; retworks, detect fraudulent activities, provide transaction history and reports, ensure compliance with PCI DDS and binancial regulations. This system will support e-commerce websites, point of sale (POS) Systems and mobile payment solutions.

1.3 Overwiew The cops will act as an intermediace The cips will a banks. Customers wages merchants and banks. Customers will of through applications will of which payments through applications will the payments the ccps for authorizations connect to the CCPS for authorization and slettlement. The system connect to the constant. The system will a merchant dashboard will a provide A merchant dashboard will us reporting, APIS for integration for and communication protocols. General Description The system will run on a doud by 6. injous buchre. The architecture will be modular with. aperate transactions, bravel defection any. reporting modules. · Users include austomers who make payments, menhants who accept payments, and view reports and Administrators and view reports and monitor the system 6. · Interfaces: API's for integration, web day. plust comply with PCI DPS, support high toursaction volumes and ensure 99.94 availability. 3. Kunchonal Requirements. and details . Accept and validate credit is swing bank Authorite transactions with Perform braud checks Complete Settlements and fund mansfers Handle returneds and chargebacks

fievide escure secure merchant logic and API Support and the ation Interface Requirements web - based merchant deshboard (seure pogin, responstue) pises API's like Boart/payment network API pos terminals and courd readers . HTTPS with TIS 1.3 eneryption. 6. Performance Requirements pansaction authorization time should be less than 2 seconds. , system throughput: 1000 transactions per second . Availability: 99-91. uptime , scalability: Must support 14 + concurrent www. 6. Pesign Constraints. . Must follow PU DDI compliance for data handling · AES 256 encryption , TLS 1-3 for barinission . Paterbase neest support audit logs for 7 years · Ba compatible APL 7. Non- functional Attributes. · Security: End to end eneryption, fraud detection, secure authentication. Reliability: Automatic failover, bailagard

recovery system usability: Intuition dashboard for Postability: Mond-based, acressible mobile devices. and nobile devices. 8. Prelininary Schedule and Budget Week 1-2: Requirement analysis & design 3-6: Pevelopment of transaction and nodule. 7-9: Fraud detection and settlement module. 10-12: Merchant dashboard and integration 13-14. Testing 15: peployment and user training Budget. Requirement analysis - £2,00,000 £ 4,00,000 System besign £ 3,50,00 Implementation - 22,00,000 Festing 23,00,000 Deployment - 214,80,000 Total