# **CREDIT CARD PROCESSING SYSTEM**

# SOFTWARE REQUIREMENTS SPECIFICATION

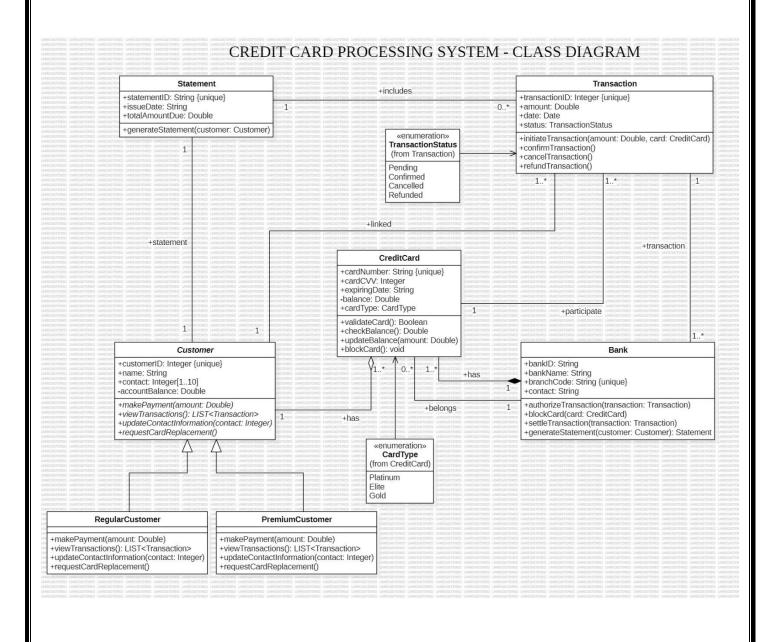
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SOFTWARE REQUIREMENTS SPECIFICATION	2.1 User Objectives: The system should
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FOR CREDITY CARD PROCESSING SYSTEM	as the system should
Els Bridget	enable meachants to quickly and sengel.
1. Interoduction	enable merchants to quickly and securely perocus credit card transactions manage
( Roquer &) & mie sithou Stromore inpos o	and Integrate scamped generate supports
1.1 Purpose of this Document: This document	
defines the sequisiements for a software	business systems
ey stem's functional by peorfacimance expendation and design constructive escaving as a	2.2 Then Change of a Think
and design constraintly serving as a	2.2 User Characteristics: The system will be used by cashiers, stars managers, and
composehonerie quede fair the development team	accounting personnel each with varying
	lovels of rechiral proficiency, Therefore
21-3 scope of this Document: This document 63	The sustern should allow a superficially
encompasses the functional and non-functional	The system should offer a river-friendly interface with appropriate access controls
oreguinements far the credit Card proceeding	Local manufactured and local to local
system Richarding VD specifications downsacting systems Richarding VD specifications downsacting successing dotally security posttocols, and Interface sequinaments from Interfacting with external systems of the payment gatainages and abonks	2.3 features sidner Africant book
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interface oraquiramente foor Interacting with	· Transaction Brocessing: Brocess credit card
external systems like payment gaterians	authorizations, capitues, defunds, and
and allanks grinines bus trongulated .	it voldsiling wet belistich standa lat
1-3 Discouriew: The condit cool processing	· Security: Implement robust security means
13 December : The could raved powcessing	to protect sensitive candholdin data and
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sommen enopline louringles to accent	Reporting and Reconcellation: idenmate
manage to ansaction authorization	eary seconcitation with bank saturation
and soconcitiention processes while	· Integration: Provide APIS as Integration
It will manage to ansaction authorization, settlement, and reconcilication processes while adhering to industry security standards, particularly the payment could industry Data security standard (PCR DSS)	equality for learnest connections with capabilities for learnest connections with other business tystems, such as POS other business tystems, such as POS terrainals and accounting software.
at la la payment card Industry	other outiness systems software.
security standard (PCR DSS)	Feynanais are record

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24 Benefite: The system well stocamline the	4,	Interface Requirements:
payment process, reduce processing costs improve cash flow, minimize ithe stick of	1 110	gless Out it
fraudulent disjon sactions; and enhance	A-1	half paragraph of the system shall paragraph a
customes tours. Low Piber 24 man	100000	dockton and accessible therough lighth
customerch tourst. hen tiber 2811000	LOUBLE A	theor interface is the system shall provide a need-based UI acceptable therough with docktop and mobile devices
3. Furthonal Requirements at appelar born		External System Interfaces:
200 Table 200 Table		rescure esignem muriplicis:
31 Bransaction Concessing: The system shall support various coold types, shall perform real time	10.1	Payment diatendrue of Fra leaves
various cood types, shall perform real fin.	lood	Payment yaterdays: Far secure communication
authorization sucreets to apparation to cond	0	Acquiring Banks: To facilitate the googst
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32 Security a The system shall enought all	0	Card netwarks: four downsactions authorized
32 security: The system shall encoupt all		- one and settlement
sensifice cardholder data at rest and in travel	7	7. Non-Franciscoal Attentional T
shall use tokenization to suplace actual	5.	legipannance Requirements
cand number with unique tokens during		19 19 19 19 19 19 19 19 19 19 19 19 19 1
han tillen stands. On a said	5.1	Bransaction Brosesting speed: The system
processing.  3.3 Reposition and Reconciliation: The system shall generate detailed transaction proports.		should powers authorization requests within
shall generate of total to a to		a few decords to entire a smooth checking experience for customers.
shall generate detailed iteransaction supports, including date of the amount, coord type and authorization status		experience fun clistomens-
authorization status	5.2.	hystem Availability: The system should
2400 100 100 100 100 100		les Alable restable taggettere an surtime of
34 Integriation: The system shall office ARDS		be highly available, taggetting an suptime of 99.99 to minimize discuptions in condition
on soks for Interior with other lustiness		eard processing
as soks fast Integration with other business bystems, enhang transless operation		
well applied and applied a value of the	5.3	Icabability: The system should be scatable to handle increasing townsaction volumes as the business grows.
when experiment and word with the trans		to handle Incovaling townsaction volumes
to the land emitted stories ento		as the bufiness grows.
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6. Design Constraints:		Page Page
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61 Security Complance The Rictory		& Budget
comply soft the own it	8-1	coche dule : The
Onto sound and payment and Industry		take 6 months los lestimated to
611 Security Compliance: The system must comply with the payment coord industry. Ata security Standard (PCT DSS) to enture the secure handling of coudit conditions.		eschedule: The pergent is estimated to take 6 months. Jeroken into key phases:
one section handling of condit cand	0	Roger account to the to
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		no that (I month)
62 degal and Regulation Requirements: The	1.0	Costo Phase (3 month)
suffer must adhere to all appropriate has	2 (9/)	Requisionments gathering (2 needs)  Design Phase (3 month)  Development Phase (3 month)  Desting Phase (1 month)  Deployment and designifications has
and regulatory requirements and the	0	Deployment and Leaning (2 weeks)
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and regulationy requirements related to condition of processing in the regions when		AATT STORY TO STORY T
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7.1 Security.  7.1 Security.  7.2 Rethability and assorthing small mailtangument.  7.3 Usability.	21/1292	Pestero Phase: \$ 20,000
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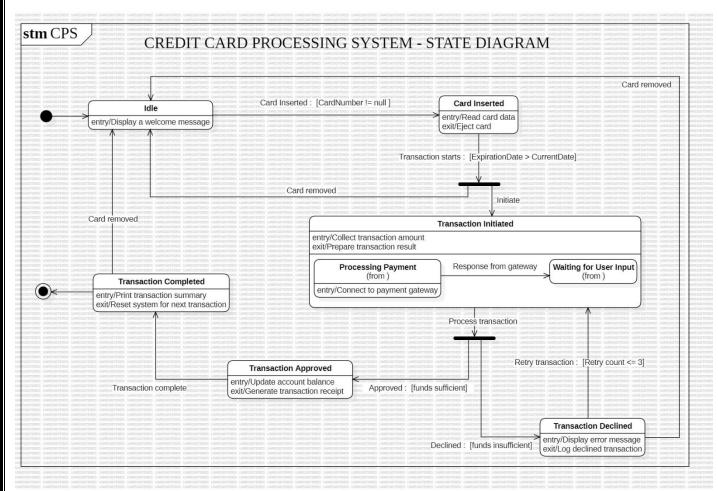
### **UML DIAGRAMS**

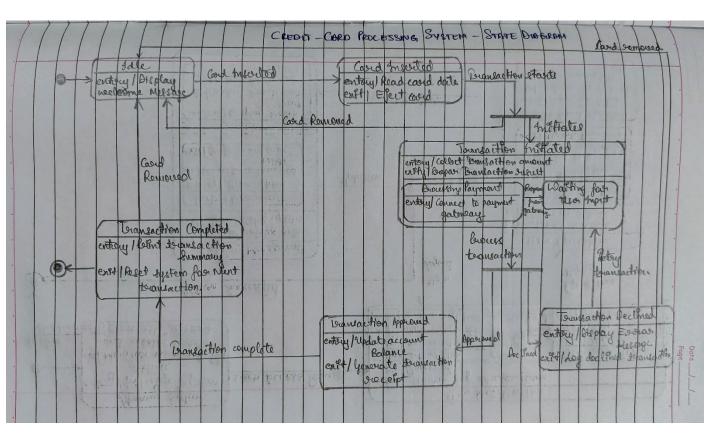
#### **CLASS DIAGRAM**



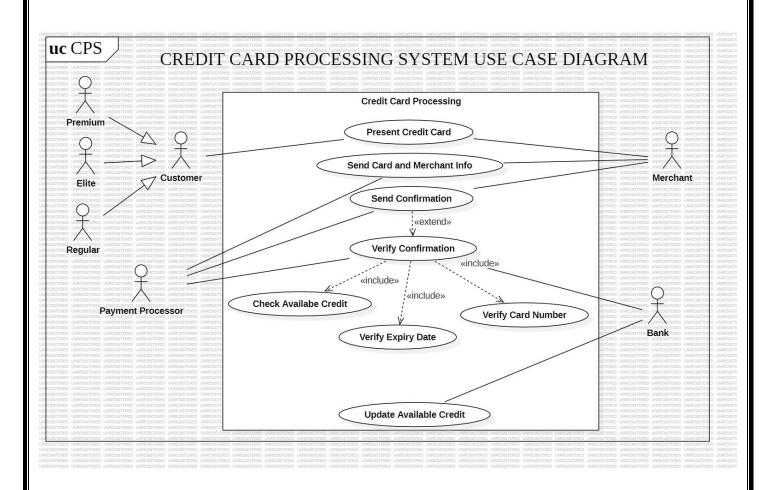
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#### STATE DIAGRAM





### USE CASE DIAGRAM



## SEQUENCE DIAGRAM

