3. Credit Card Management System a. SRS Document:

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California and	
1) Introduction	
1.1 Purpose of this document	No. of Street, or other Persons and the Person
This 3R3 defones the functional and no	-
functional requirements. It specifies necessary	
details, step wise working needed to ande a	34
elterent & want of and a	
efferent & nobust system	-
1-2 scope of the document	
System must be able to perform	1 4
-> seamless payments	
Ex Broger account prosugament	
-> Fasy to use system	
- Monthly of account statement general	
and the second s	6
1.3 Overview	
This system will be an embedded	
System that provides retailers with often	
to accept payment through credit card	
- I was a second of the second	
2) Ceeneral description.	6)
User must provide card to cassion if ianh	
has been enabled with top functionality it	
can be tapped on Pos machine otherwise	-
insert onto slot / swipe & pin must be entored	74
after checking amount. If money is debite	
reciept is generated Use error	
3) Fundronal requirements	
To loss parents	8/
Payment process 13. simple and doesn't	
require much bethereal Knowladge	
THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	

Fasy to use system l'ayments must be easy, the just a tag is enough to do payments. Monthly assemble statement generalizar Track of all payments to kept and Is. accessed to generate card both and send Interface requirements It should provide tot of options, it must be clearly displayed on the screen and navigation must be easy. Performance requirements The response for query must have time amil, of exceeded must timeal and return, failure. Minimum 2 48 RAM to ensure smooth experience. perign constraint. User friendly UT which is responsive International endst cards cannot be processed 1) Non functional Regionements User por must not be stored, strong hash function must be used to compare pins It involves real money. Payment clashe must not be there. 8) Preterminary schoolete and Budget The project must be congleted in

		3dal24
10 months and budget to	o be allocated	
budget must be used		9
Budget split.		
	\$176000	
Hordwon	\$ 100000	
Security	\$ 75000	
Ircences	\$ 50000	
Testing	\$ 50000	
Project management	\$ 25000	
Pocumentation Maintenance	\$ 1,5000	
Total.	\$ 10000	
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b. Advanced Class Diagram:

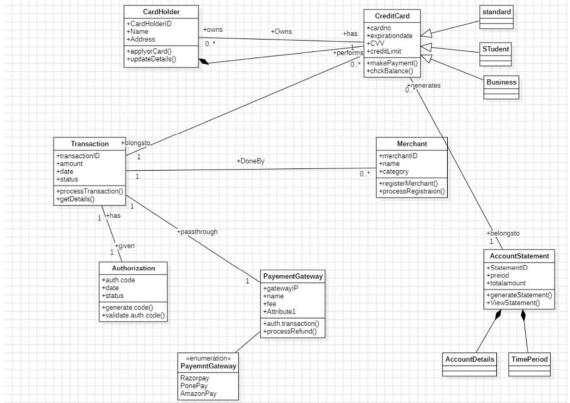
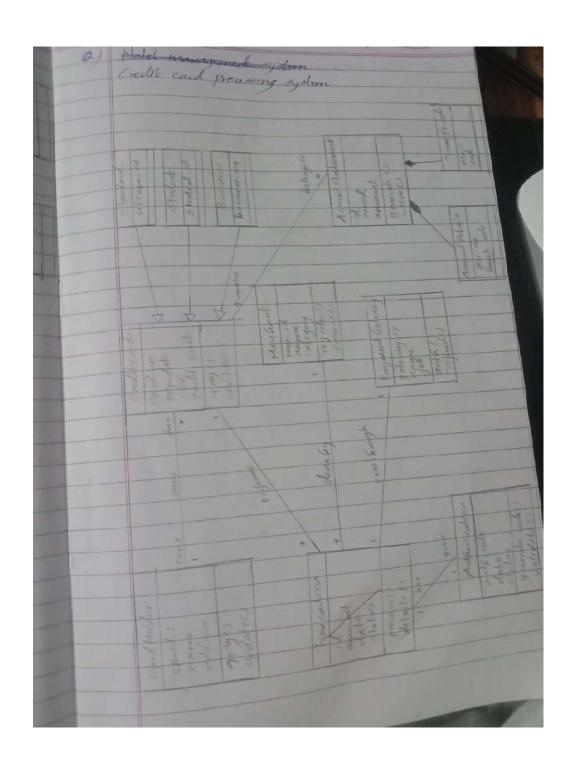


Fig 3.1:

The main entities include:

- Card Holder, who owns a Credit Card used for transactions. The credit card has details like card number, CVV, and credit limit, with operations for payments and balance checks.
- Transaction, which records details like amount, date, and status, is linked to both Authorization (for validation) and Payment Gateway (for processing or refunding payments).
- Merchant, which registers businesses accepting payments and processes transactions from customers.
- Account Statement, which tracks transaction history, generates statements, and is linked to periods and account details.

The diagram also shows inheritance, with specialized credit cards (e.g., Student or Business), and enumerates multiple payment gateways (e.g., RazorPay, PhonePay). It maps how users, cards, merchants, and gateways interact in the system to process payments seamlessly.



c. Advanced State Diagram:

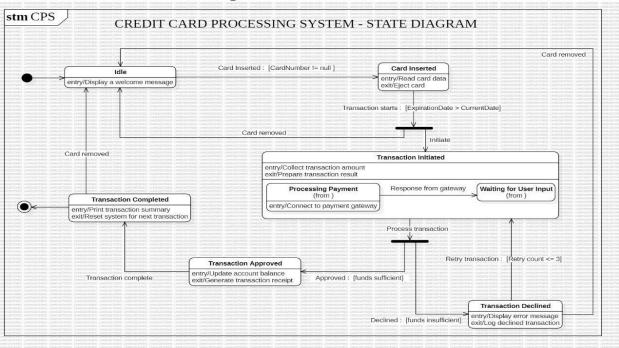
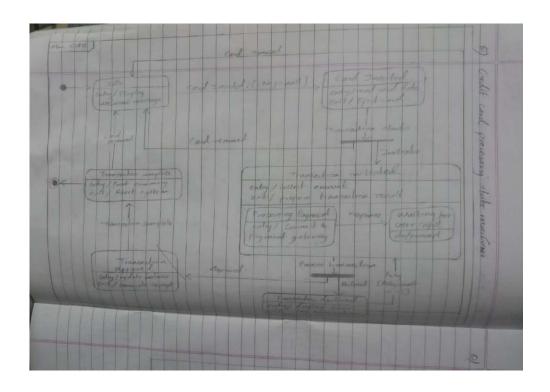


Fig 3.2:



d. Use Case Diagram:

Credit Processing System

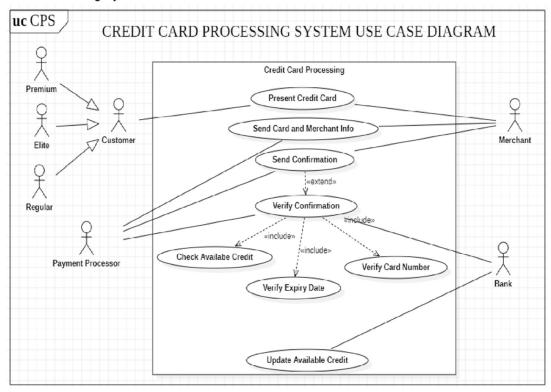
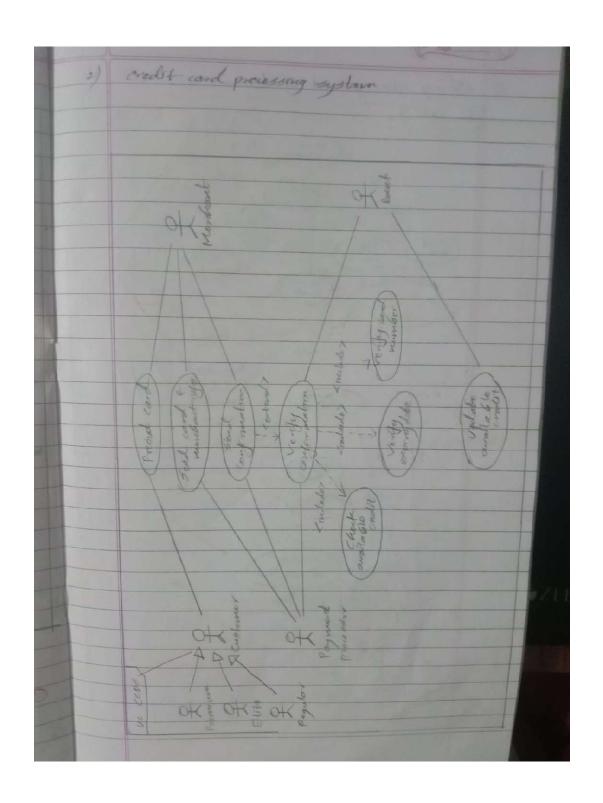


Fig 3.3:



e. Sequence Diagram:

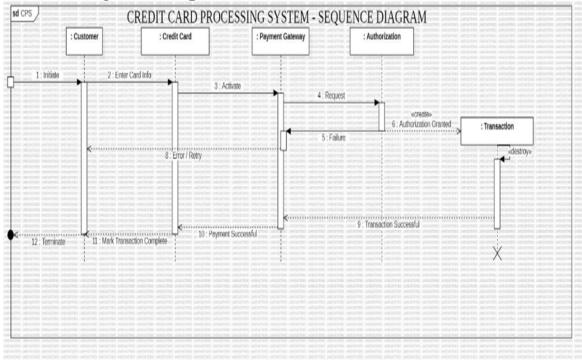
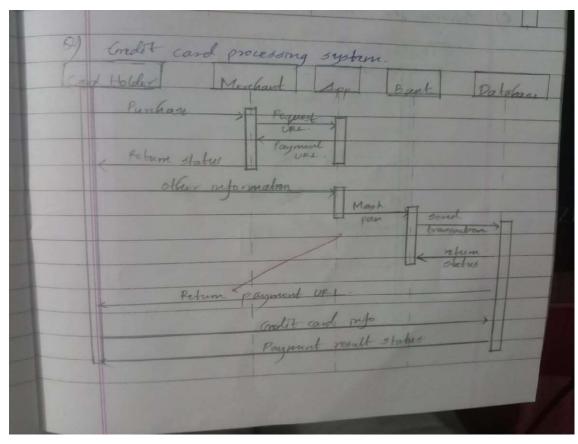


Fig 3.4:



f. Activity Diagram:

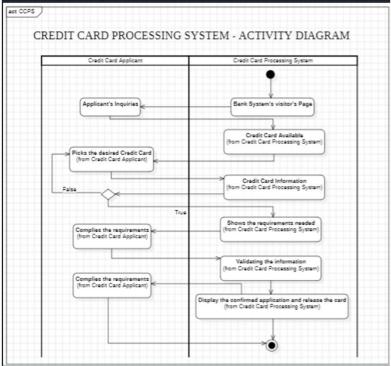


Fig 3.5:

Applicant's Journey:

- The process starts with the applicant making inquiries and selecting a desired credit card.
- If the chosen card is available, the applicant compiles and submits the required documents.

Processing System's Role:

- The system displays the bank's visitor page and shows the available cards and their details.
- It provides the list of requirements needed and validates the submitted information.
- Upon successful validation, the system confirms the application and releases the card.

Decision Point:

• If the card is unavailable, the applicant must re-select or terminate the process.

