CREDIT CARD PROCESSING

correctness of the diagrams depends on the problem statement she gives so copy mindfully!

Termwork 1:

Functional Requirements:

Payment Gateway Integration: The system should integrate with a payment gateway to process credit card payments.
Credit Card Verification: The system should verify the credit card information, including the card number, expiration date, and security code.
Authorization: The system should obtain authorization from the credit card company before processing the payment.
Transaction Processing: The system should process the credit card transaction and transfer the funds to the merchant account.
Refund Processing: The system should allow for refunds or chargebacks in case of a disputed transaction or cancellation.
Reporting: The system should generate reports on credit card transactions, including details such as transaction amount, date, and status.

Non-Functional Requirements:

Security: The system should provide secure credit card processing to prevent fraud and protect users' personal information.
Performance: The system should be able to handle a large volume of credit card transactions without any performance issues.
Availability: The system should be available 24/7 to process credit card transactions at any time.
Reliability: The system should be reliable and accurate, with no errors or system crashes during credit card processing.
Compliance: The system should comply with all relevant regulations and standards, such as PCI DSS (Payment Card Industry Data Security Standard).
Usability: The system should be easy to use and navigate, with clear instructions and guidance for credit card processing.

Ambiguities:

->The authorization process for credit card processing can be ambiguous, with different providers and systems offering different requirements and protocols.
->The chargeback process can be ambiguous, with different card issuers and networks offering different procedures and timelines.
->Cardholder agreements can be incomplete or difficult to understand, leading to confusion for customers and merchants.
->Refund policies can be ambiguous, with different providers offering different policies and procedures for processing refunds.

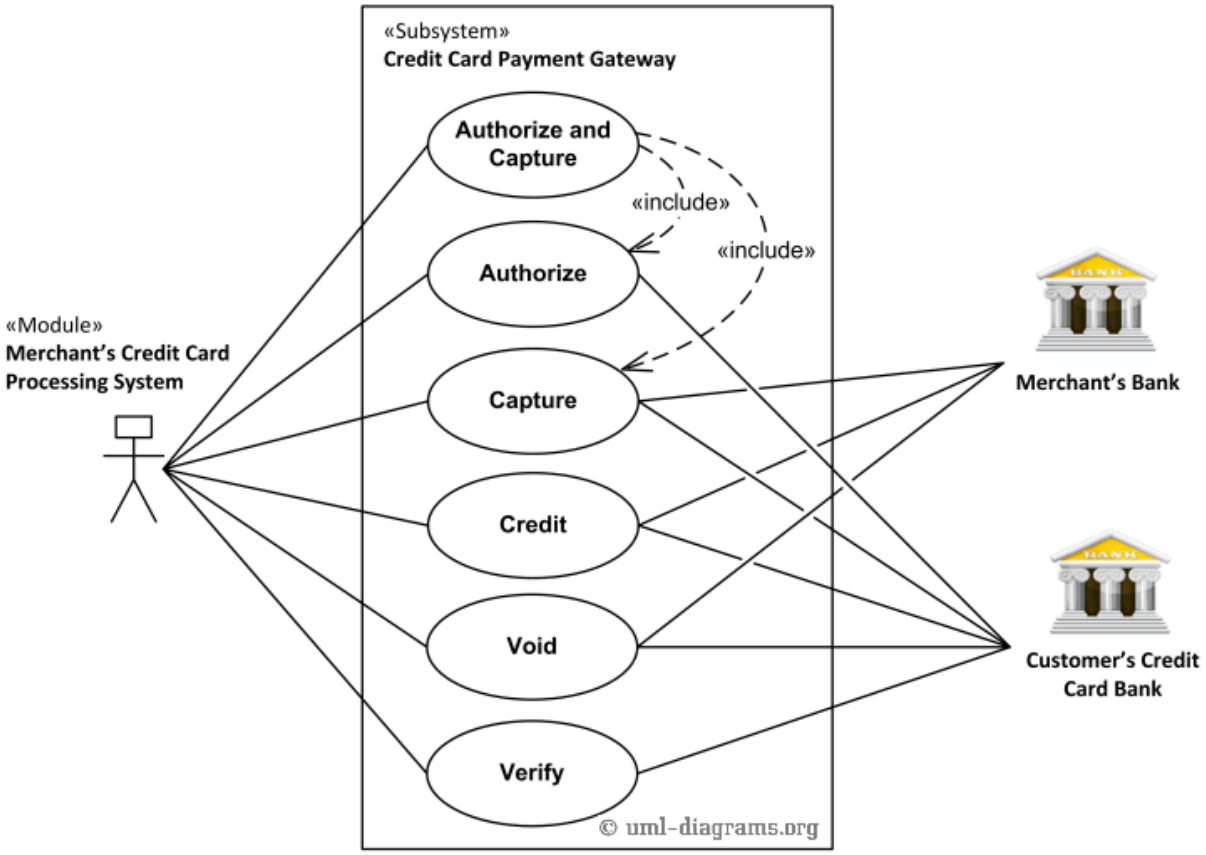
Inconsistencies:

->Fraud detection systems are not always consistent across providers and can sometimes fail to detect fraudulent transactions.
->Dispute resolution can be inconsistent across providers and can result in delays or errors in processing refunds or chargebacks.
->Payment processing fees can be ambiguous, with different providers charging different fees for different types of transactions.
->Payment gateway integration can be inconsistent across providers and can result in errors or delays in processing transactions.

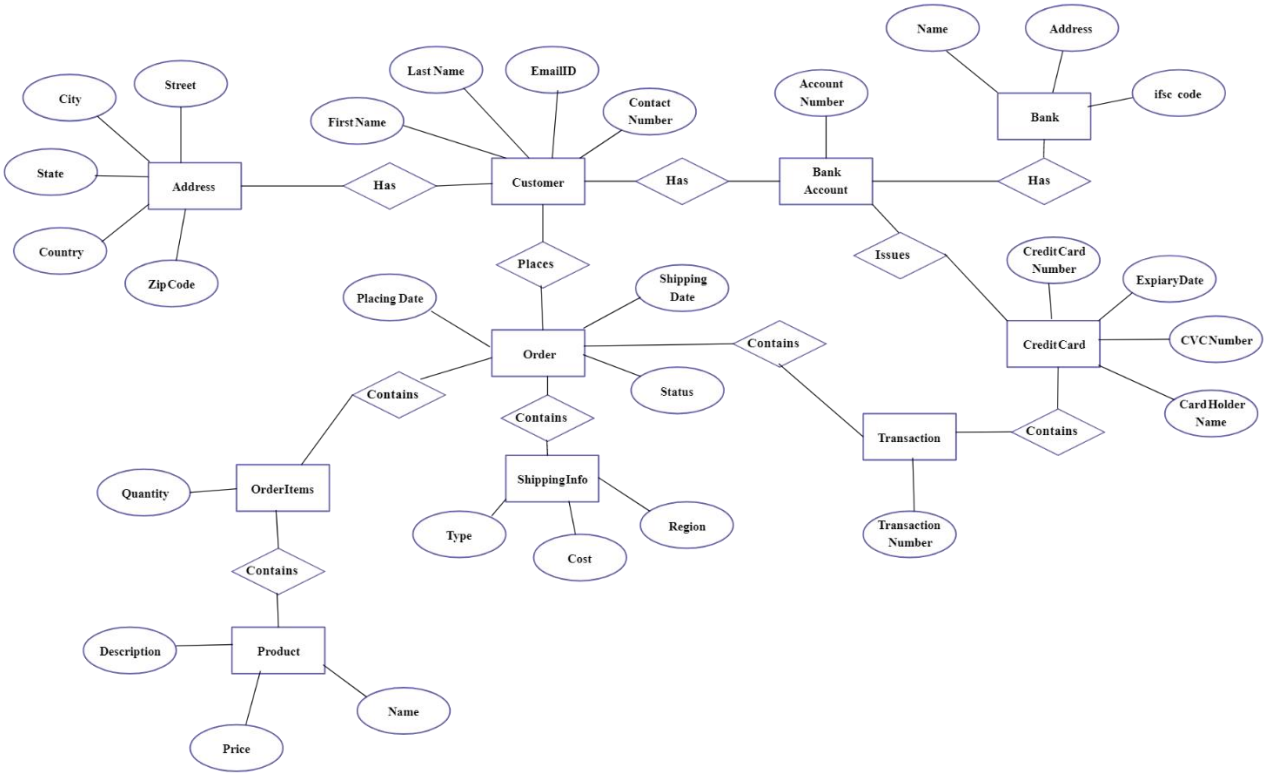
Incompleteness:

->Incomplete or inaccurate transaction data can cause errors in credit card processing.
->Incomplete or inaccurate payment information can cause delays or errors in processing payments.
->Missing information such as the cardholder’s name, billing address, or expiration date can result in a transaction being declined or charged incorrectly.
->Incomplete or inaccurate cardholder agreements can lead to disputes over charges or misunderstandings about the terms of the agreement.

Termwork 2:


«Subsystem»
Credit Card Payment Gateway
Authorize and Capture
«include»
«include»
Authorize
Capture
Credit
Void
Verify
© uml-diagrams.org
«Module»
Merchant's Credit Card Processing System
Merchant's Bank
Customer's Credit Card Bank

Termwork 3: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City
Street
Account Number
ifsc code
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Zip Code
Places
Issues
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ExpiaryDate
Placing Date
Shipping Date
Order
Contains
CVC Number
Contains
Status
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Card Holder Name
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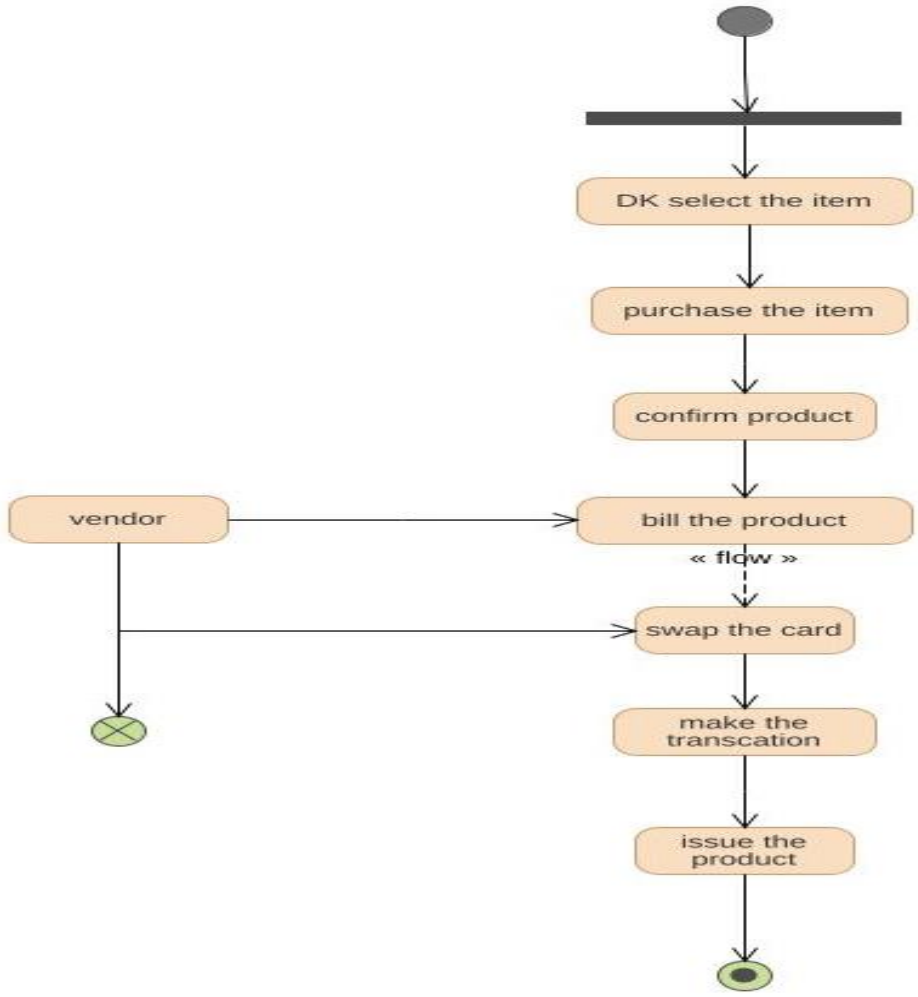
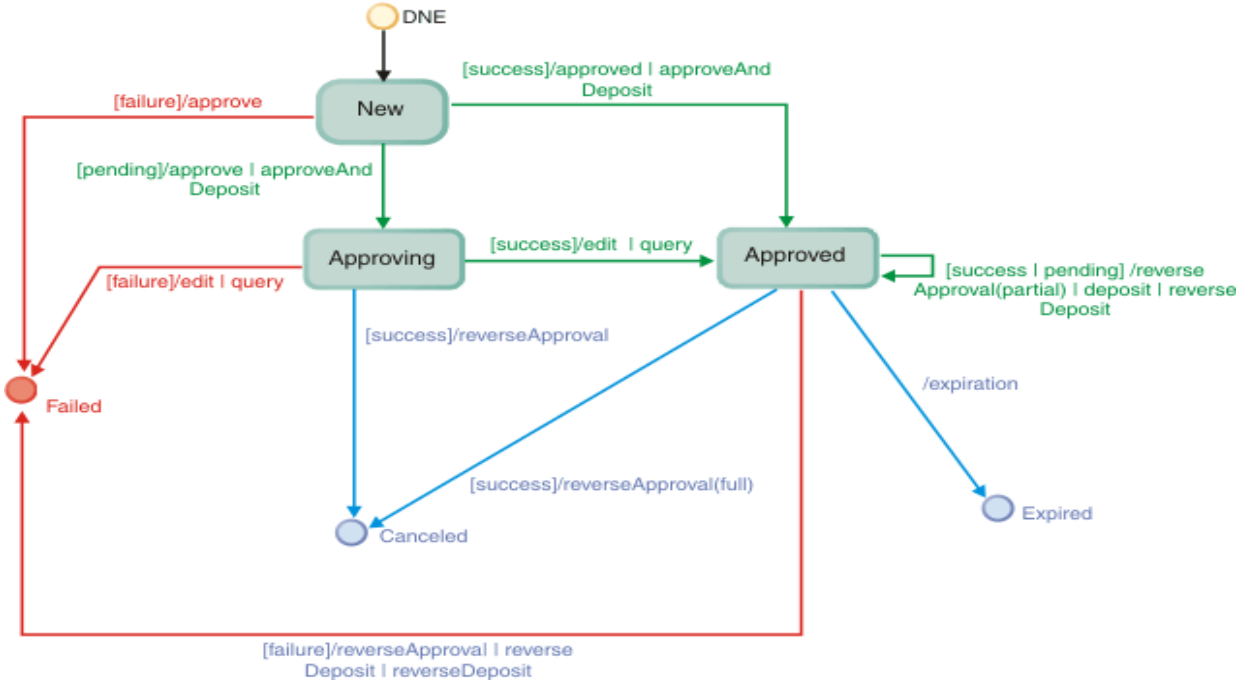
Contains
Description
Product
Name
Price

Temwork 5:
activity diagram:

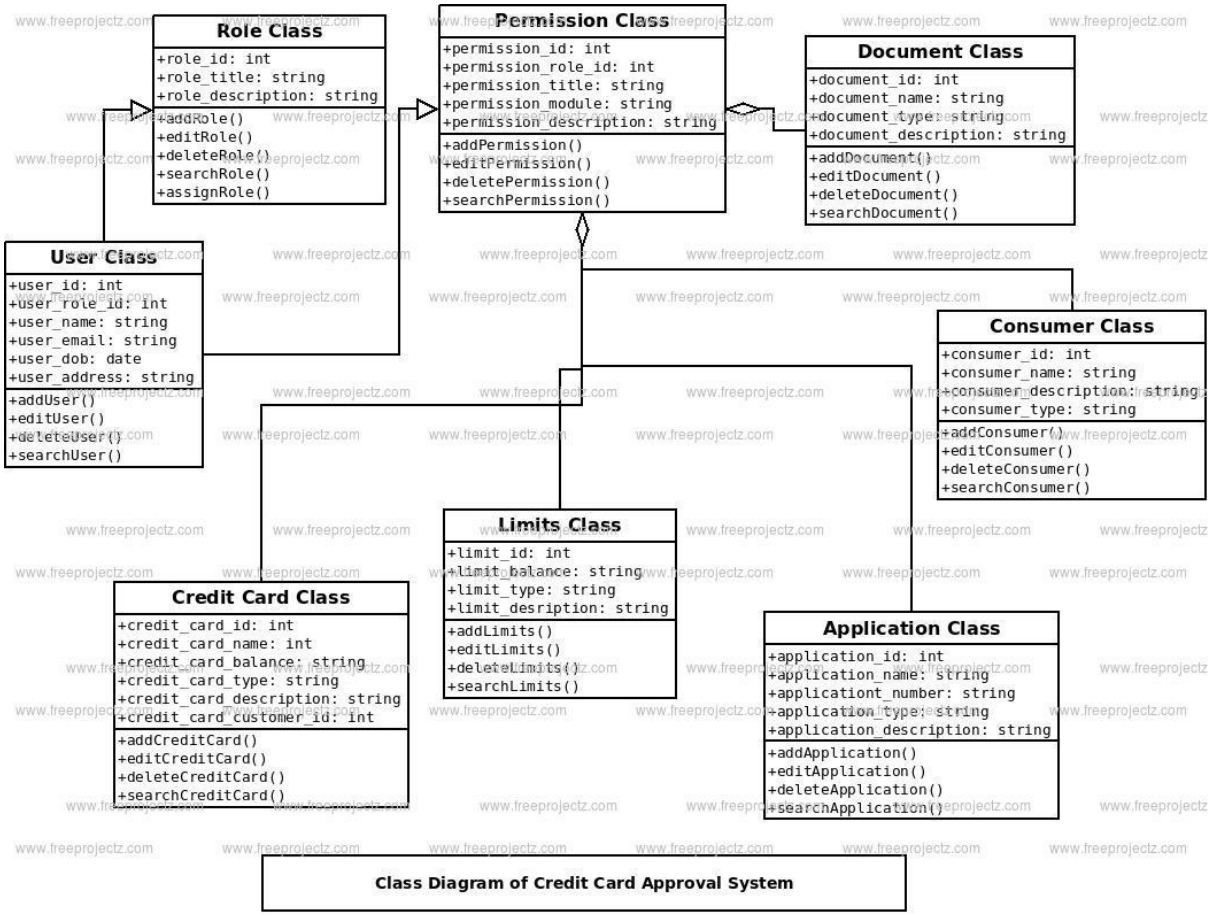


state diagram:



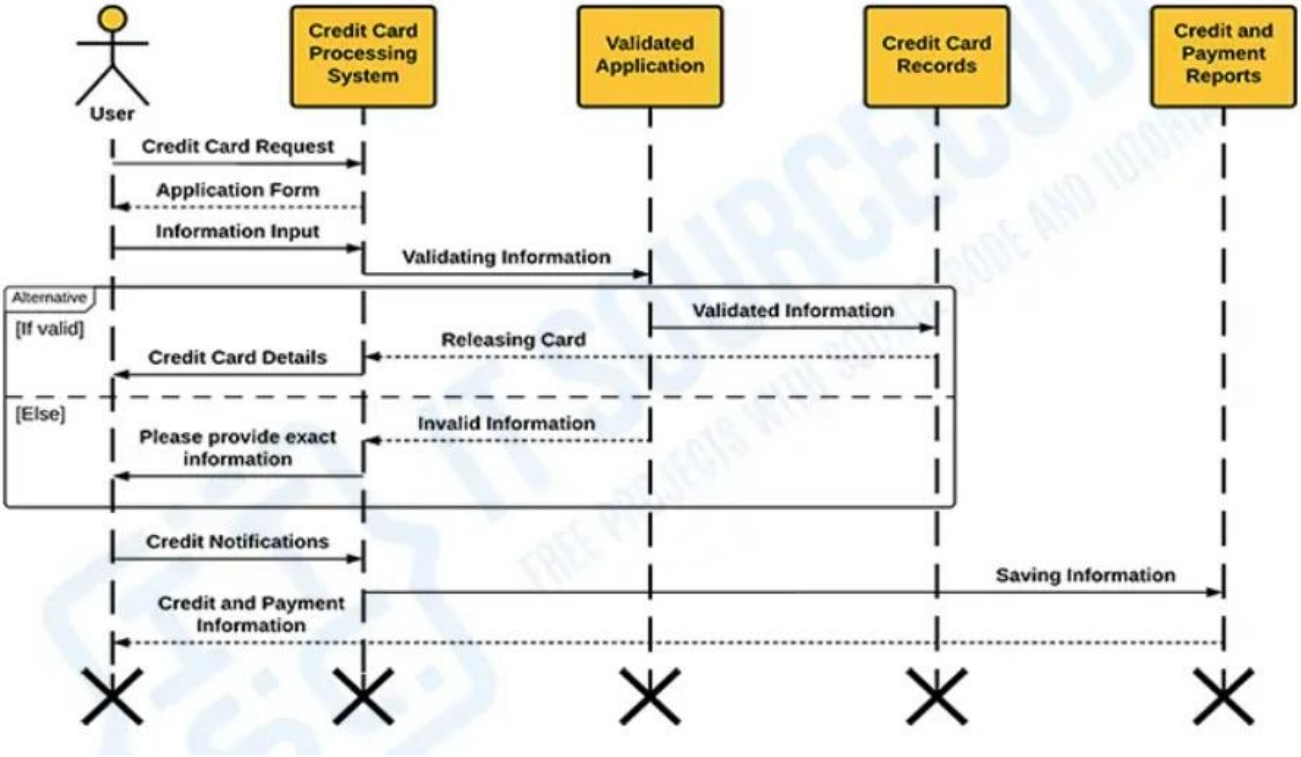
Termwork 6:

class diagram:

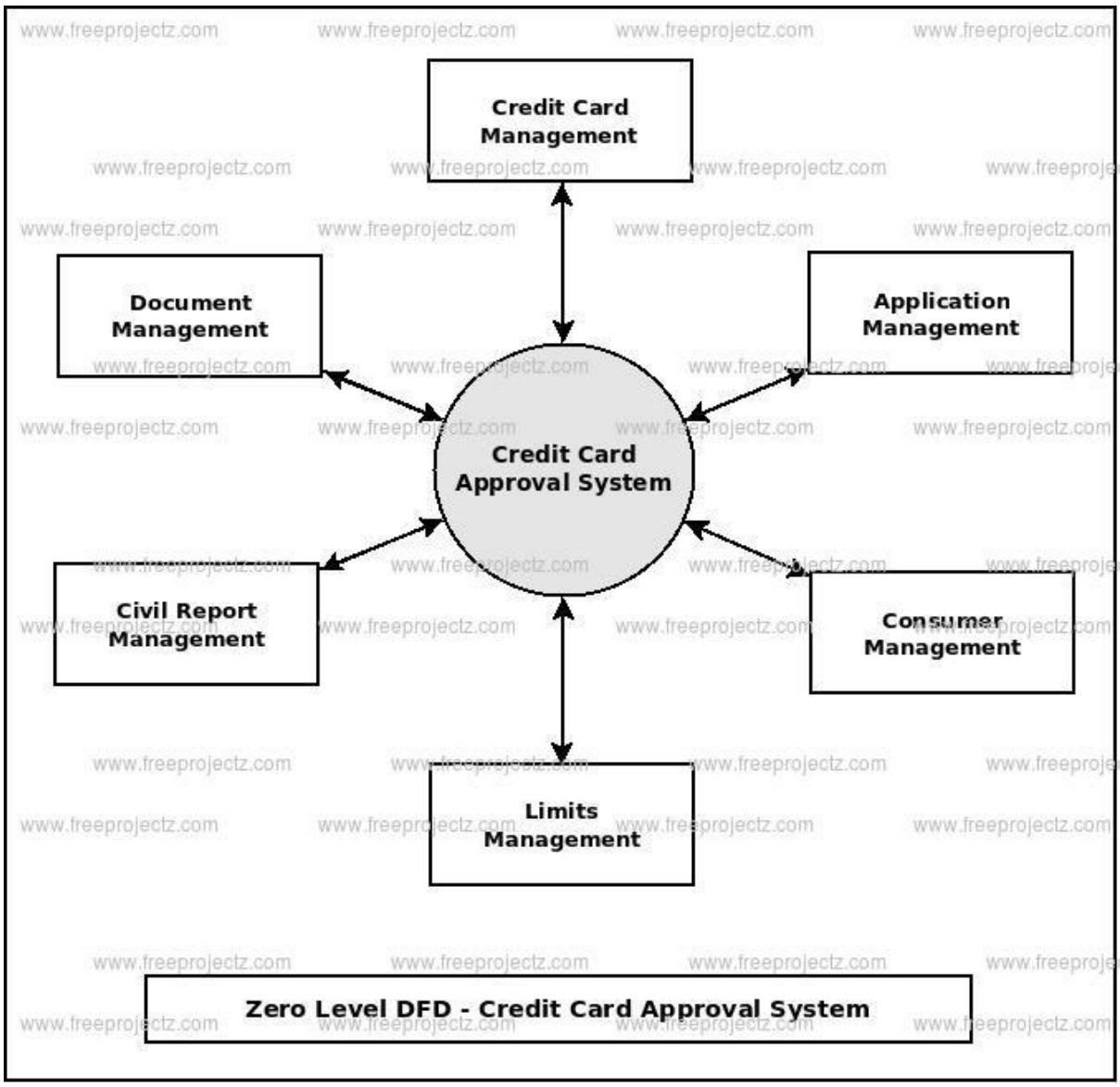


Class Diagram of Credit Card Approval System

sequence diagram:



Termwork 7:


Credit Card Management
Document Management
Application Management
Credit Card Approval System
Civil Report Management
Consumer Management
Limits Management
Zero Level DFD - Credit Card Approval System