

AED Final Project Report

Banking Management System

The project is a Banking Management System which is a simple and easy to use application offering features such as amount deposit, amount withdrawal, credit card application, loan application, transaction details and also provides graphical insights via pie charts for the loans and credit cards approval.

Enterprises:

Banking, Card, Loan, Card Verification, Loan Verification, Customer

Organisations:

Banking, Card, Loan, Card Verification, Loan Verification, Customer

Roles:

System Admin, Banking Admin, Banking Officer, Customer, Card Admin, Card Officer, Card Verification Admin, Card Verification Officer, Loan Admin, Loan Officer, Loan Verification Admin, Loan Verification Officer, Customer.

Tech Stack: Java, Java Swing (UI), MySQL (Database)

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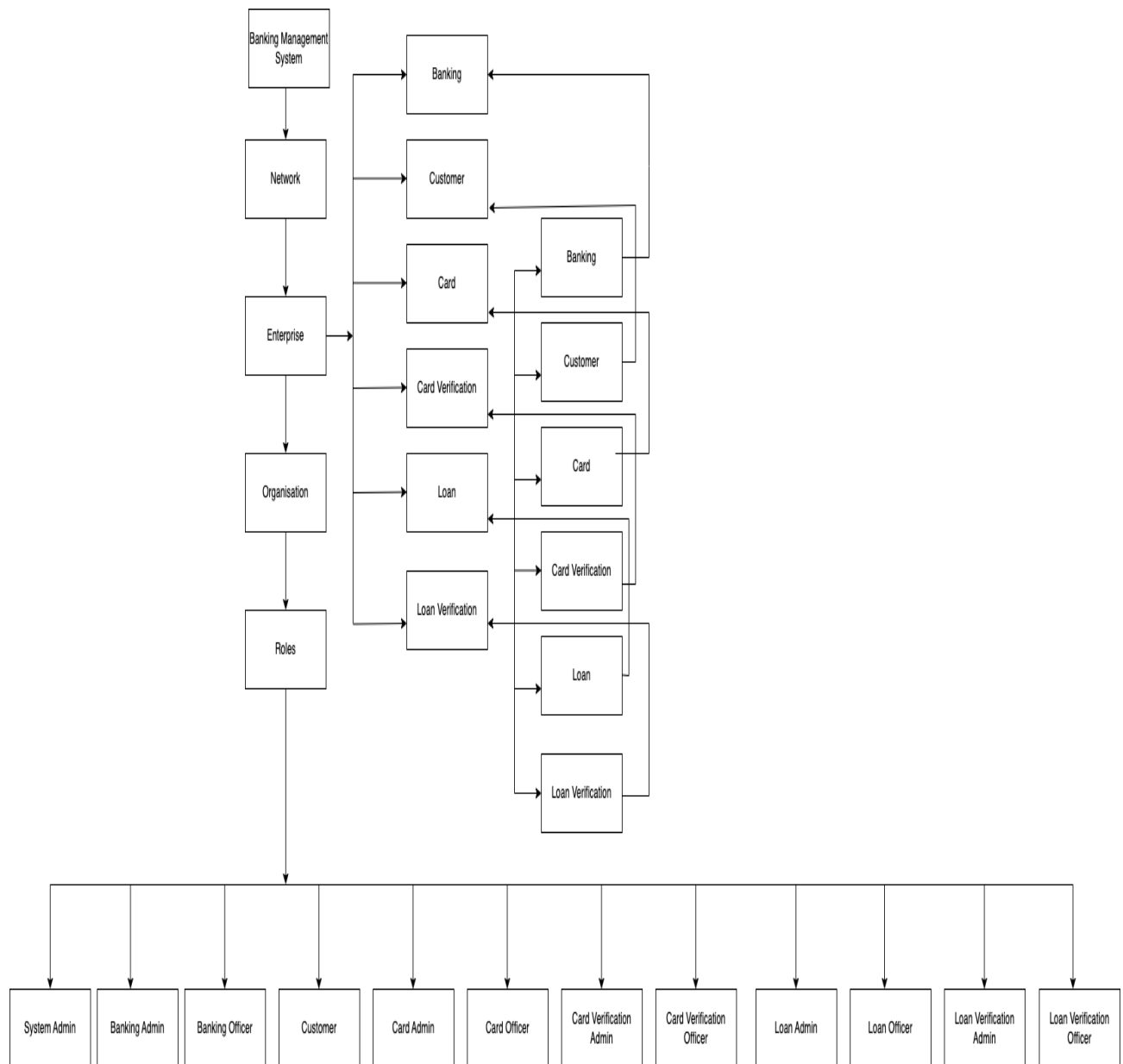
Features:

- System admin creates the network and credentials for the Banking Admin, Card Admin, Card Verification Admin, Loan Admin and Loan Verification Admin.
- Banking Admin creates the banking organization and credentials for the banking officer.
- Card Admin creates the card organization and credentials for the card officer.
- Card Verification Admin creates the card verification organization and credentials for the card verification officer.
- Loan Admin creates the loan organization and credentials for the loan officer.
- Loan Verification Admin creates the loan verification organization and credentials for the loan verification officer.
- Banking Officer creates the bank accounts and credentials for the customers.
- Customers can deposit the amount, withdraw the amount, check the transaction details, apply for credit cards and apply for loans.
- Card Officer either approves the customer's credit card request and sends for verification or rejects the credit card request.
- Card Verification Officer either approves or rejects the credit card request upon verification.
- Loan Officer either approves the customer's loan request and sends for verification or rejects the loan request.
- Loan Verification Officer either approves or rejects the loan request upon verification.
- Pie charts for the loans and credit cards approval insights.

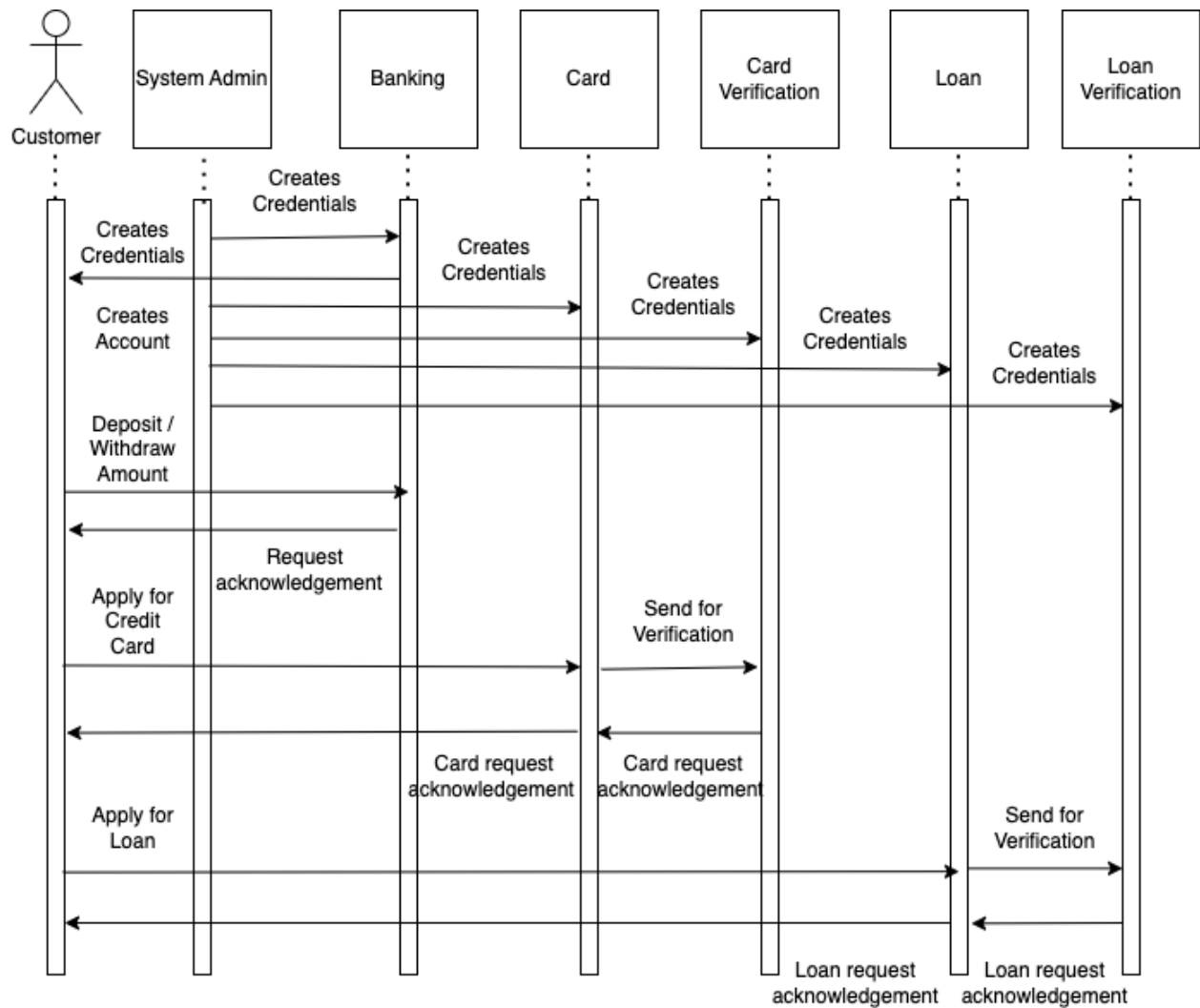
Class Diagram:



Object / Workflow Diagram:



Sequence Diagram:



Screenshots:



Banking

Username

Password

Login

Logout



Admin

Manage Network

Manage Enterprise



Banking

Username

Password

Login

Logout



Back

City

Boston
New York

Delete

Add Network

Enter the city

Add

Update

Banking

Username

Password

Login Logout



Back

Network	Enterprise	Username
Boston	Banking	BankingAdmin
Boston	CardAdmin	CardAdmin
Boston	CardVerificationAdmin	CardVerificationAdmin
Boston	LoanAdmin	LoanAdmin
Boston	LoanVerificationAdmin	LoanVerificationAdmin
New York	Swiss	SwissAdmin
New York	Visa	VisaAdmin
New York	Prodigy	ProdigyAdmin
New York	CardBGV	CardBGVAdmin
New York	LoanBGV	LoanBGVAdmin

Delete

Network

Enterprise

Username

Password

Role

Add

Update

Banking

Username

Password

Login

Logout



Administrator

Manage Organisation

Manage Employee

A D M I N

Banking

Username

Password

Login

Logout



Manage Organisation

Back

Organisation

BankingOrganisation
SwissOrganisation

Delete

Enter the organisation

Add

Update

Banking

Username

Password

Login

Logout



Manage Employee

Back

Username

Role

BankingOfficer
SwissOfficer

Banking
Banking

Delete

Username

Password

Add

Update

Banking

Username

Password

Login

Logout



Banking Officer

AccNo	FName	LName	Email	PhNo	Address	username	Network	Balance
AA001	Pavan	Shekar	pavan@gm...	85786919...	235 Park Dr	pavan	Boston	1200
AA002	John	Jacobs	john@gmail...	71825364...	26 Carson St	john	New York	6000

Delete

Acc No

Balance

FName

LName

Email

Ph No

Address

Network

Username

Password

Add

Update

Banking

Username

Password



Customer

Banking

Username

Password

Login

Logout



Account Information

[Back](#)

Acc No	AA001	Username	pavan
FName	Pavan	LName	Shekar
Email	pavan@gmail.com	Ph No	8578691951
Address	235 Park Dr	Network	Boston

Balance 1200

Transaction Type	Transaction Amount	Account Balance
Credit	500	1500
Debit	300	1200

Banking

Username

Password

Login

Logout



Deposit

Back

Account Balance: 1200

Enter the amount to be deposited:

Deposit

Banking

Username

Password

Login

Logout



Withdraw

Back

Account Balance: 1200

Enter the amount to be withdrawn:

Withdraw

Banking

Username

Password

Login

Logout



Cards

Back

Acc No	Card No	Card Type
AA001	372724943573427	Platinum
AA001	372724943576810	Gold

Apply for Credit/Debit Cards

Card Type

Black

Apply

Banking

Username

Password

Login

Logout



Loan

Back

Acc No	Loan No	Loan Type	Loan Amount
AA001	L18722	Student Loan	50000
AA001	L10875	Personal Loan	10000

Apply for Loan

Loan Type

Loan Amount

Apply

Banking

Username

Password

Login

Logout



Card Officer

Acc No	Card No	Card Type	Card Officer	Status
AA001	372724943573427	Platinum	CardOfficer	Approved
AA002	372724943578764	Gold	VisaOfficer	Rejected
AA002	372724943571527	Silver	VisaOfficer	Approved
AA001	372724943576810	Gold	CardOfficer	Approved
AA002	372724943572243	Black	VisaOfficer	Approved

Assign

Process Card Request

☐ Approve

☐ Reject

Process

Send for Verification

Check Insights

Banking

Username

Password

Login

Logout



Card Verification Officer

Acc No	Card No	Card Type	Card Officer	Card Verification ...	Status
AA001	372724943573427	Platinum	CardOfficer	CardVerificationOff...	Approved
AA002	372724943578764	Gold	VisaOfficer	VisaVerificationOffi...	Rejected
AA002	372724943571527	Silver	VisaOfficer	VisaVerificationOffi...	Approved
AA001	372724943576810	Gold	CardOfficer	CardVerificationOff...	Approved
AA002	372724943572243	Black	VisaOfficer	VisaVerificationOffi...	Approved

Assign

Process Card Request

☐ Approve

☐ Reject

Process

Banking

Username

Password

Login

Logout



Loan Officer

Acc No	Loan No	Loan Type	Loan Amount	Loan Officer	Status
AA001	L18722	Student Loan	50000	Loan Officer	Approved
AA002	L10720	House Loan	100000	Prodigy Officer	Rejected
AA001	L10875	Personal Loan	10000	Loan Officer	Approved
AA002	L18390	House Loan	80000	Prodigy Officer	Approved
AA002	L11505	Car Loan	25000	Prodigy Officer	Approved

Assign

Process Loan Request

☐ Approve

☐ Reject

Process

Send for Verification

Check Insights

Banking

Username

Password

Login

Logout



Loan Verification Officer

Acc No	Loan No	Loan Type	Loan Amount	Loan Officer	Loan Verificati...	Status
AA001	L18722	Student Loan	50000	LoanOfficer	LoanVerificatio...	Approved
AA002	L10720	House Loan	100000	ProdigyOfficer	ProdigyVerificat...	Rejected
AA001	L10875	Personal Loan	10000	LoanOfficer	LoanVerificatio...	Approved
AA002	L18390	House Loan	80000	ProdigyOfficer	ProdigyVerificat...	Approved
AA002	L11505	Car Loan	25000	ProdigyOfficer	ProdigyVerificat...	Approved

Assign

Process Loan Request

☐

Approve

☐

Reject

Process

Credit Card Approval Insights

Back

Banking

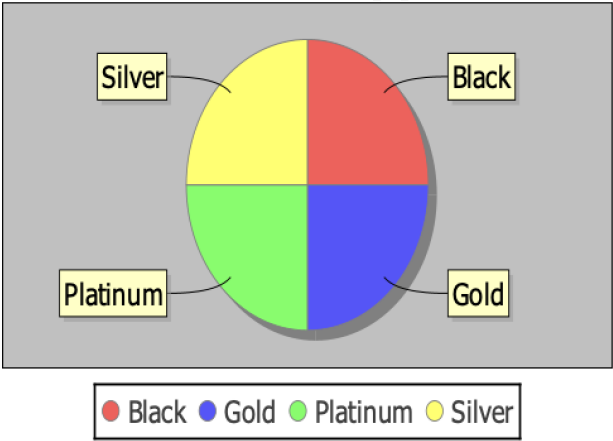
Username

Password

Login Logout



Credit Cards Approved



Banking

Username

Password

Login

Logout



Loan Approval Insights

Back

Loans Approved

