SRS DOCUMENT

ONLINE BANKING PROJECT

Introduction

Online Banking enables customers to access their accounts and get information of their accounts and different products and services provided by the bank without actually visiting the bank.

In our project some customers are provided with a User ID and Password and others can register while opening an account. The customer can login with these details and he/she can access their various accounts and can also update or view their profile. The customer can also view balance in their accounts and make withdraws, deposit or pay EMI.

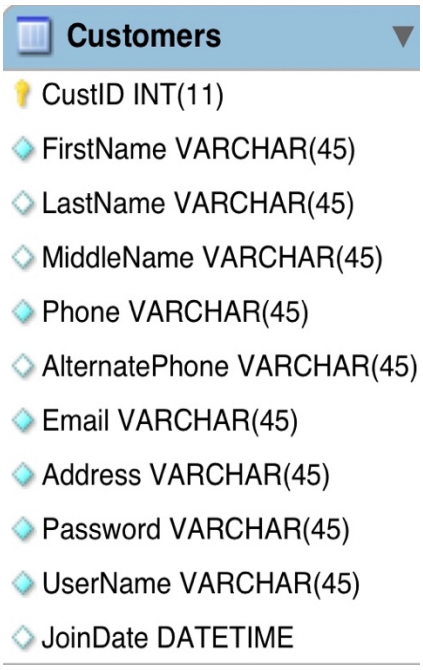
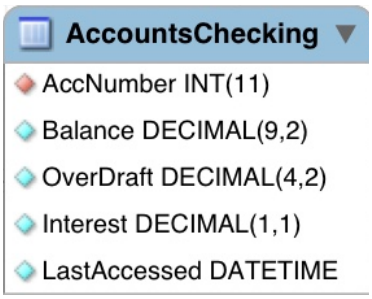
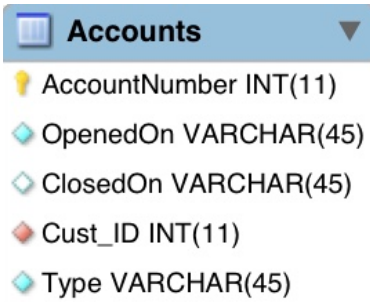
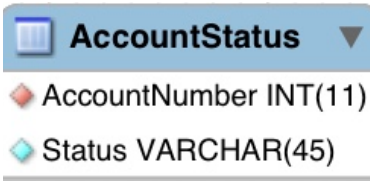
Customers can enquire about an account and also about the interest on the account.

Implementation

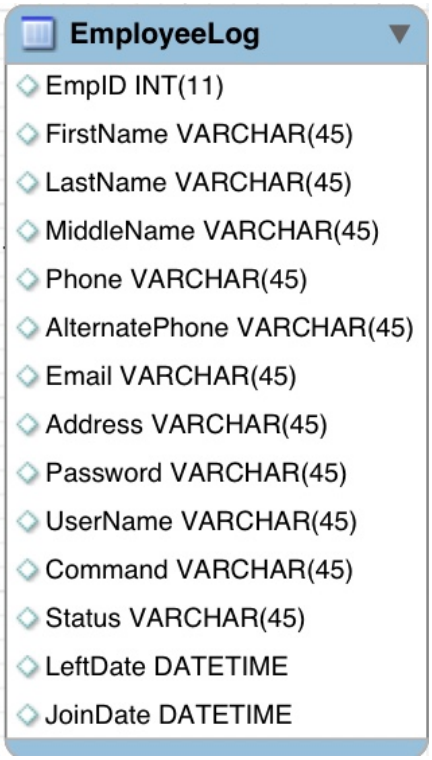
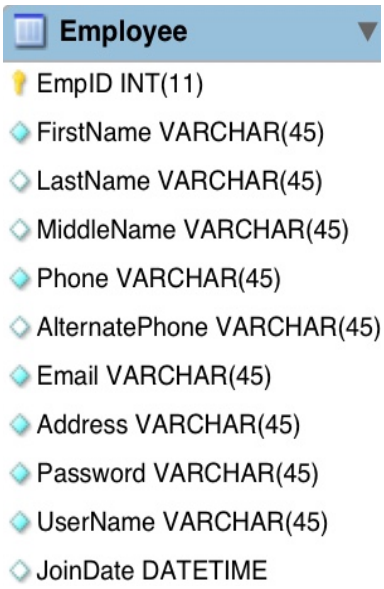
In this project we will be accomplishing the following tasks:

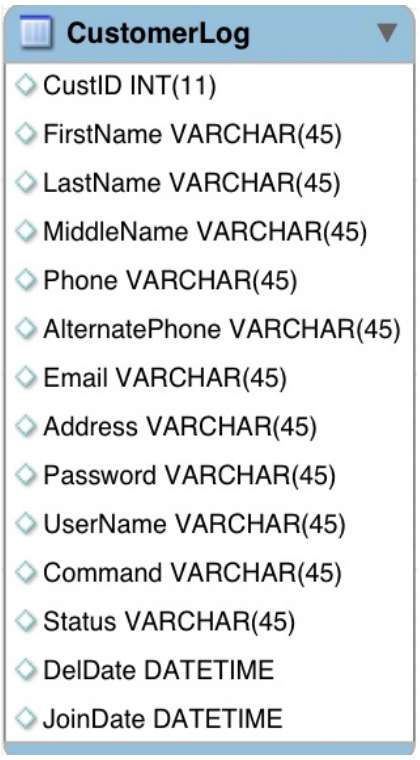
1. User Login / Registration
2. Viewing / Updating customer / employee information
3. Employee Login
4. Account creation(opening) / deletion (closing)
5. Account access for different types of accounts (Savings, checking, Loan)
6. Access to Account, Customer and Employee Logs
    - Account and Customer logs (By employees only)
    - Employee Logs (Bank Admin/Owner login only)
7. Transactions (like Withdraw, Deposit, Pay EMI, Wire Transfer)

Database Tables

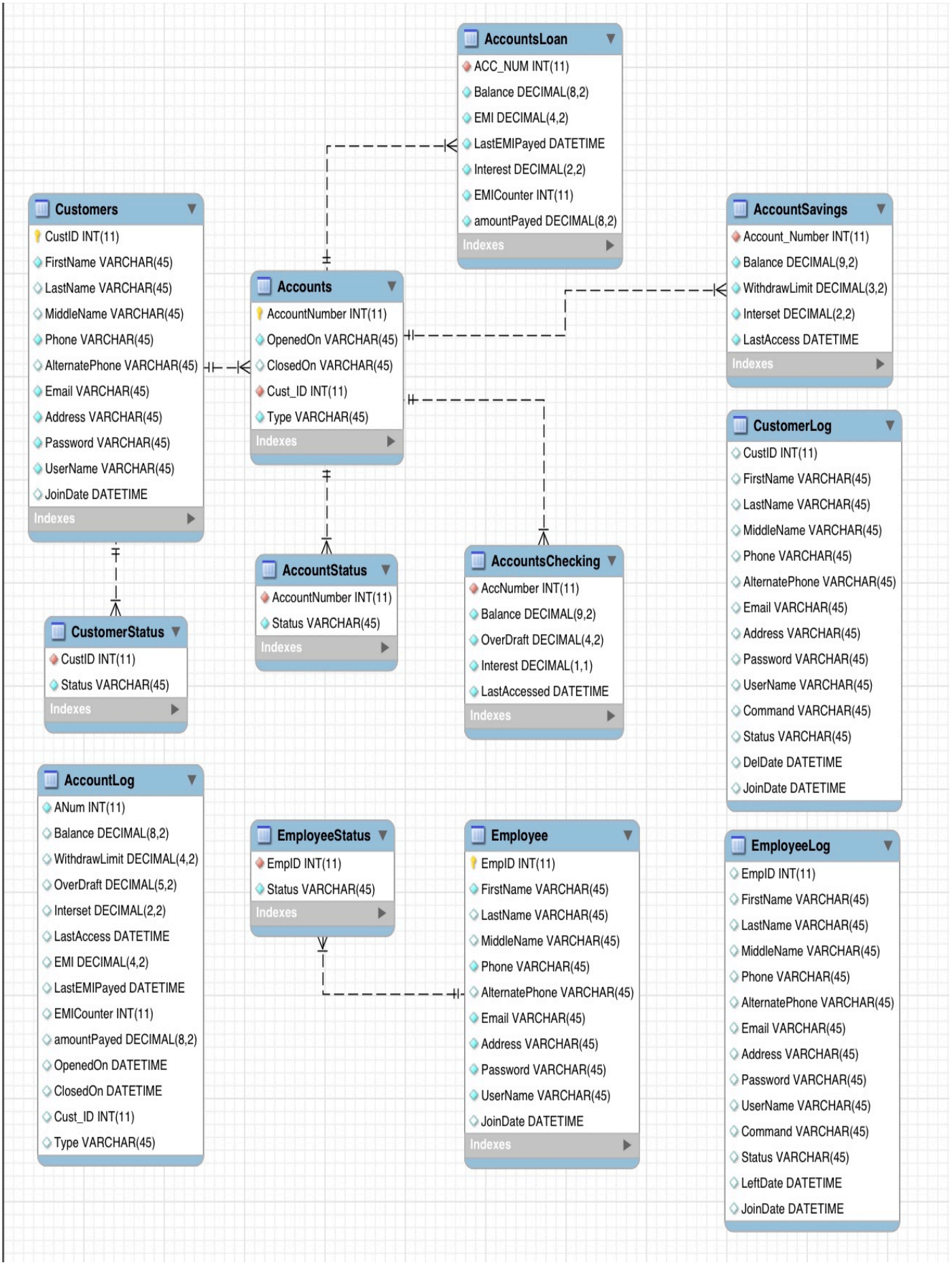
	**PRIMARY KEY :** CustID
	**FOREIGN KEY:** AccNumber **ON TABLE:** Accounts
	**PRIMARY KEY :** AccountNumber **FOREIGN KEY:** Cust_ID **ON TABLE:** Customers
	**FOREIGN KEY:** AccountNumber **ON TABLE:** Accounts

AccountSavings Account_Number INT(11) Balance DECIMAL(9,2) WithdrawLimit DECIMAL(3,2) Interset DECIMAL(2,2) LastAccess DATETIME	**FOREIGN KEY:** Account_Number **ON TABLE:** Accounts
AccountsLoan ACC_NUM INT(11) Balance DECIMAL(8,2) EMI DECIMAL(4,2) LastEMIPayed DATETIME Interest DECIMAL(2,2) EMICounter INT(11) amountPayed DECIMAL(8,2)	**FOREIGN KEY:** ACC_NUM **ON TABLE:** Accounts
EmployeeStatus EmpID INT(11) Status VARCHAR(45)	**FOREIGN KEY:** EmpID **ON TABLE:** Employee
AccountLog ANum INT(11) Balance DECIMAL(8,2) WithdrawLimit DECIMAL(4,2) OverDraft DECIMAL(5,2) Interset DECIMAL(2,2) LastAccess DATETIME EMI DECIMAL(4,2) LastEMIPayed DATETIME EMICounter INT(11) amountPayed DECIMAL(8,2) OpenedOn DATETIME ClosedOn DATETIME Cust_ID INT(11) Type VARCHAR(45)	**NA**
CustomerStatus CustID INT(11) Status VARCHAR(45)	**FOREIGN KEY:** CustID **ON TABLE:** Customer

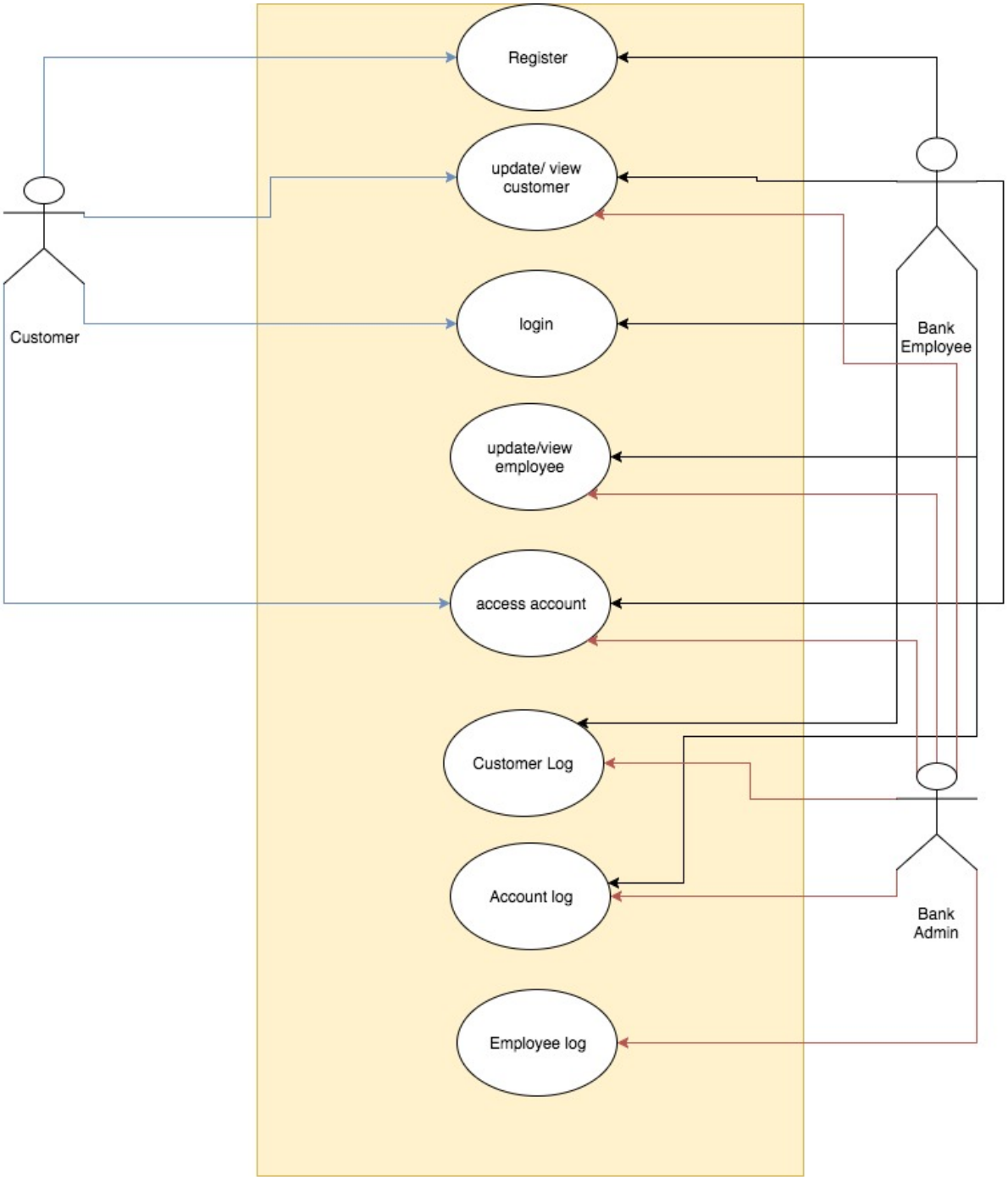
	**NA**
	**PRIMARY KEY :** EmpID

 CustomerLog CustID INT(11) FirstName VARCHAR(45) LastName VARCHAR(45) MiddleName VARCHAR(45) Phone VARCHAR(45) AlternatePhone VARCHAR(45) Email VARCHAR(45) Address VARCHAR(45) Password VARCHAR(45) UserName VARCHAR(45) Command VARCHAR(45) Status VARCHAR(45) DelDate DATETIME JoinDate DATETIME	**NA**

E-R Diagram


AccountsLoan
ACC_NUM INT(11)
Balance DECIMAL(8,2)
EMI DECIMAL(4,2)
LastEMIPayed DATETIME
Interest DECIMAL(2,2)
EMICounter INT(11)
amountPayed DECIMAL(8,2)
Indexes
Customers
CustID INT(11)
FirstName VARCHAR(45)
LastName VARCHAR(45)
MiddleName VARCHAR(45)
Phone VARCHAR(45)
AlternatePhone VARCHAR(45)
Email VARCHAR(45)
Address VARCHAR(45)
Password VARCHAR(45)
UserName VARCHAR(45)
JoinDate DATETIME
Indexes
Accounts
AccountNumber INT(11)
OpenedOn VARCHAR(45)
ClosedOn VARCHAR(45)
Cust_ID INT(11)
Type VARCHAR(45)
Indexes
AccountSavings
Account_Number INT(11)
Balance DECIMAL(9,2)
WithdrawLimit DECIMAL(3,2)
Interset DECIMAL(2,2)
LastAccess DATETIME
Indexes
CustomerLog
CustID INT(11)
FirstName VARCHAR(45)
LastName VARCHAR(45)
MiddleName VARCHAR(45)
Phone VARCHAR(45)
AlternatePhone VARCHAR(45)
Email VARCHAR(45)
Address VARCHAR(45)
Password VARCHAR(45)
UserName VARCHAR(45)
Command VARCHAR(45)
Status VARCHAR(45)
DelDate DATETIME
JoinDate DATETIME
AccountStatus
AccountNumber INT(11)
Status VARCHAR(45)
Indexes
AccountsChecking
AccNumber INT(11)
Balance DECIMAL(9,2)
OverDraft DECIMAL(4,2)
Interest DECIMAL(1,1)
LastAccessed DATETIME
Indexes
CustomerStatus
CustID INT(11)
Status VARCHAR(45)
Indexes
AccountLog
ANum INT(11)
Balance DECIMAL(8,2)
WithdrawLimit DECIMAL(4,2)
OverDraft DECIMAL(5,2)
Interset DECIMAL(2,2)
LastAccess DATETIME
EMI DECIMAL(4,2)
LastEMIPayed DATETIME
EMICounter INT(11)
amountPayed DECIMAL(8,2)
OpenedOn DATETIME
ClosedOn DATETIME
Cust_ID INT(11)
Type VARCHAR(45)
EmployeeStatus
EmpID INT(11)
Status VARCHAR(45)
Indexes
Employee
EmpID INT(11)
FirstName VARCHAR(45)
LastName VARCHAR(45)
MiddleName VARCHAR(45)
Phone VARCHAR(45)
AlternatePhone VARCHAR(45)
Email VARCHAR(45)
Address VARCHAR(45)
Password VARCHAR(45)
UserName VARCHAR(45)
JoinDate DATETIME
Indexes
EmployeeLog
EmpID INT(11)
FirstName VARCHAR(45)
LastName VARCHAR(45)
MiddleName VARCHAR(45)
Phone VARCHAR(45)
AlternatePhone VARCHAR(45)
Email VARCHAR(45)
Address VARCHAR(45)
Password VARCHAR(45)
UserName VARCHAR(45)
Command VARCHAR(45)
Status VARCHAR(45)
LeftDate DATETIME
JoinDate DATETIME

Use Case Diagram



We will have 3 primary actors for this project

1. **Admin / Bank Owner:**

   Acting upon :

   - Create, view, update, delete customer / employee
   - Access all accounts
   - View logs for Accounts, Customers and Employees

2. **Bank Employee**

   Acting upon :

   - Create, view, update customer

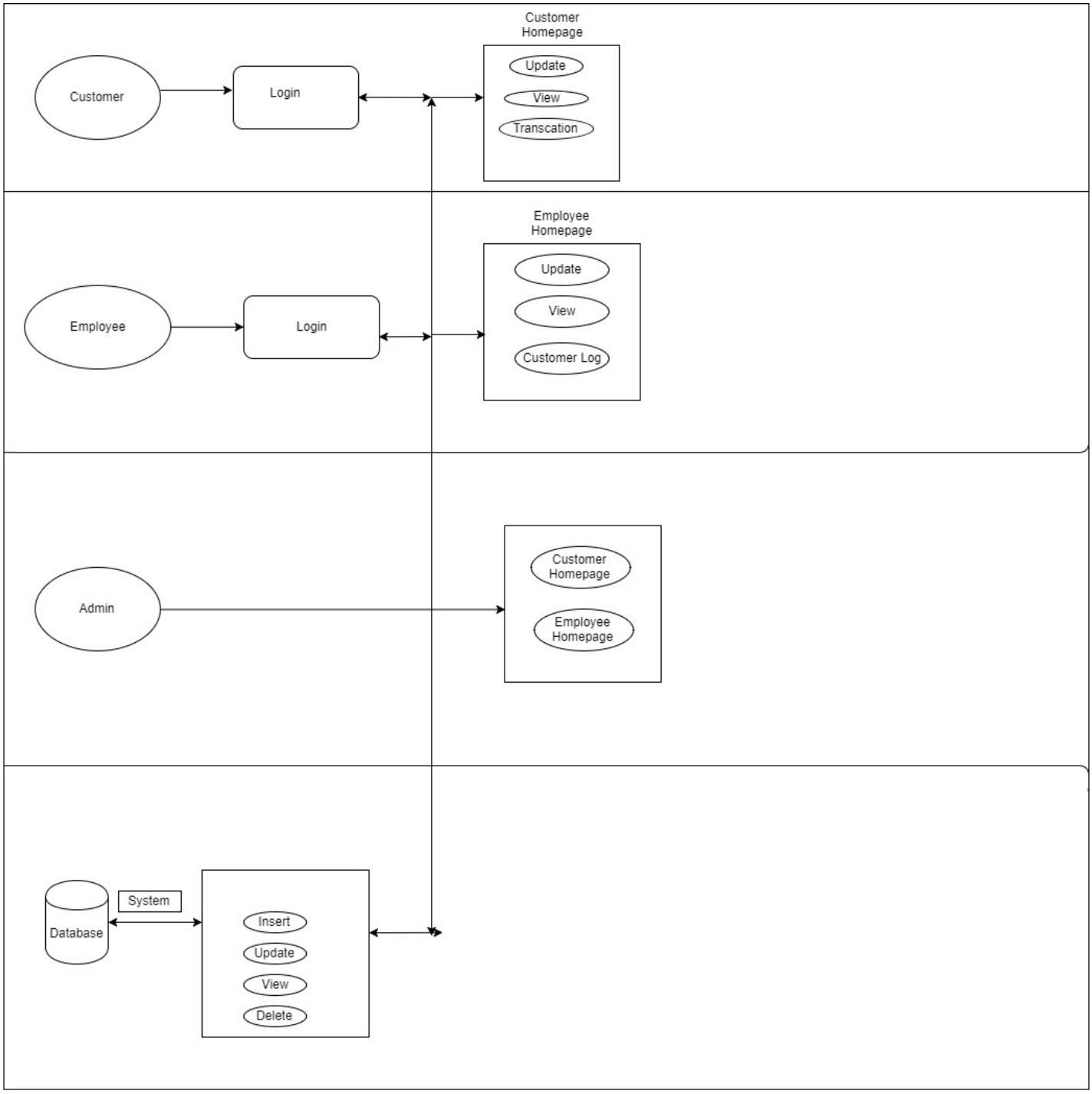
- Access all accounts
- View logs for Accounts and Customers

3. **Bank Customer**

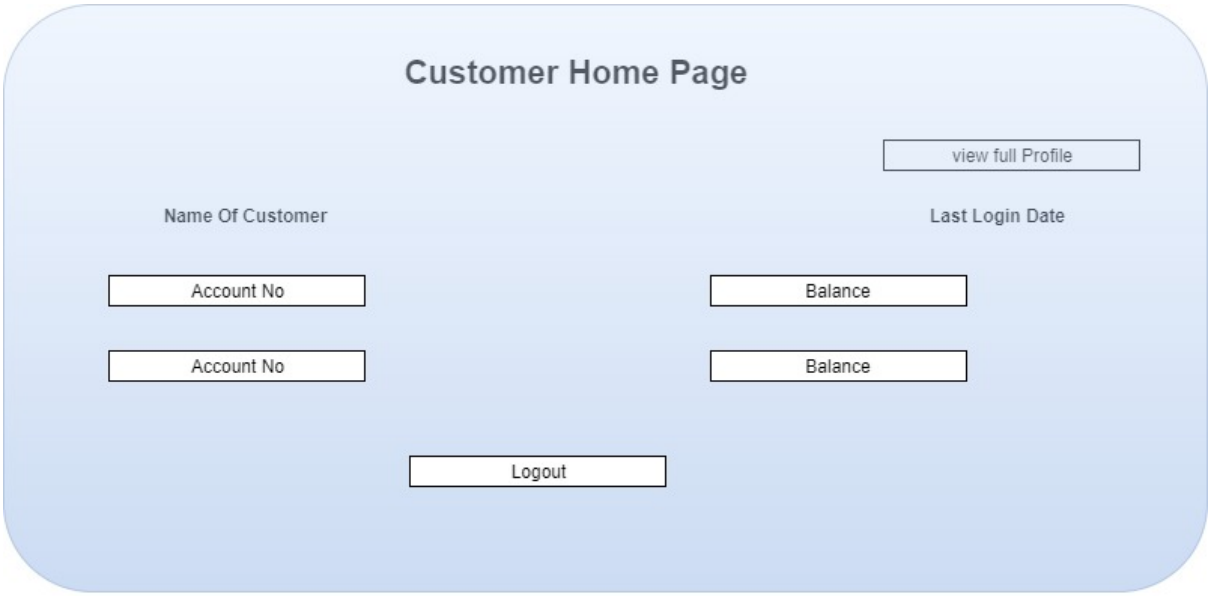
Acting upon :

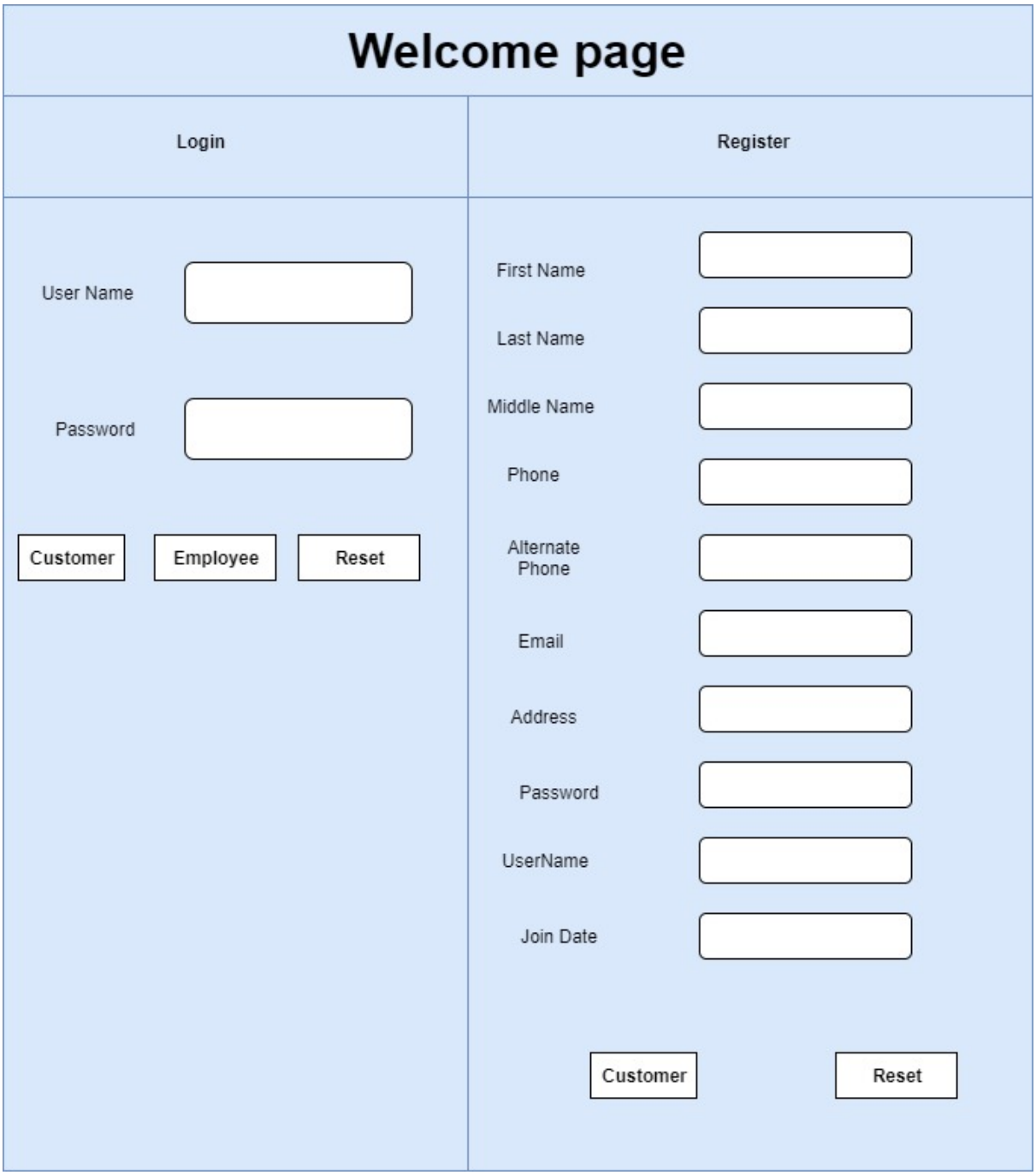
- Create, view, update, delete customer
- Access their accounts

HIGH LEVEL DATA FLOW DIAGRAM



USER INTERFACE




Welcome page
Login
Register
User Name
Password
Customer
Employee
Reset
First Name
Last Name
Middle Name
Phone
Alternate Phone
Email
Address
Password
UserName
Join Date
Customer
Reset

Account Page
acc number
balance
deposit
close account
withdraw
interest rate
Pay EMI (only in loan acc)
back to ur account
logout