

User(Username , Password)

Technical Issue(Issue ID , Feature containing issue , Date Reported , Notes on issue , Username)

Technical Issue.Username references User

Employee (Username , Date of Employment , Salary , Branch)

Employee.Username references User

Client (Username , DOB , Address , E-mail , UB)

Client.Username references User

Client.UB references Banker

Guest User (Guest ID , Username)

Guest User.Username references Client

Account (Account No. , Amount , Username)

Account.Username references Client

Car Loan (Loan ID , Model , Price , Plate Number , Deadline , Account No.)

Car Loan.Account No. references Account

Admin (Username)

Admin.Username references User

Solves (Username , Issue ID)

Solves.Username references User

Solves.Issue ID references Technical Issue

Banker (Username , Position)

Banker.Username references User

Personal Loan (Loan ID , Deadline , Amount , Account No.)

Personal Loan.Account No. references Account

Bill (Bill ID , Amount , Due date , Loan ID , PLID , Username)

Bill.Loan ID references Car Loan

Bill.PLID references Personal Loan

Bill.Username references Client

Credit Card (Card ID , Points , Credit limit , Expiry date , Amount , Username , Bill ID , BUN)

Credit Card.Username references Client

Credit Card.Bill ID references Bill

Credit Card.BUN references Banker

Transaction (Transaction ID , Status , Amount , Date , Username)

Transaction.Username references Client

Bank account transaction (Transaction ID)

Bank account transaction. Transaction ID references Transaction

Domestic Bank Accounts (Bank ID , Account no. , Client Name)

International Bank Accounts (Bank ID , Account no. , Client Name)

Credit card transaction (Transaction ID , Points , Card ID)

Credit card transaction.Transaction ID references Transaction

Credit card transaction.Card ID references Credit Card

Add Money (Card ID , Account No.)

Add Money.Card ID references Credit Card

Add Money.Account No. references Account

View Transaction (Transaction ID , Username)

View Transaction.Username references Banker

View Transaction.Transaction ID references Transaction

Redeem Points (Username , Account No. , Card ID)

Redeem Points.Username references Client

Redeem Points.Card ID references Credit Card

Redeem Points.Account No. references Account

Pay bill (Bill ID , Transaction ID , Account No.)

Pay bill.Bill ID references Bill

Pay bill.Transaction ID references Transaction

Pay bill.Account No. references Account

Internal Transfer (Account No.1 , Account No.2 , Transaction ID)

Internal Transfer.Account No.1 references Account

Internal Transfer.Account No.2 references Account

Internal Transfer.Transaction ID references Bank account transaction

Domestic Transfer (Bank ID , Account no.1 , Transaction ID , Account No.2)

Domestic Transfer.Transaction ID references Bank account transaction

Domestic Transfer.Bank ID refernces Domestic Bank Accounts

Domestic Transfer.Account no.1 refernces Domestic Bank Accounts

Domestic Transfer.Account no.2 refernces Account

International Transfer (Bank ID , Account no.1 , Transaction ID , Account No.2)

International Transfer.Transaction ID references Bank account transaction

International Transfer.Bank ID refernces International Bank Accounts

International Transfer.Account no.1 refernces International Bank Accounts

International Transfer.Account no.2 refernces Account

Notification (ID, Date, Type, Message, Status, Username)

Notification.Username references Employee

Receives (ID,Username)

Receives.ID references Notification

Receives.Username references User

Apply for CL (Loan ID,Username,Documents)

Apply for CL.Loan ID references Car Loan

Apply for CL.Username references Client

Apply for PL (Loan ID,Username,Documents)

Apply for PL.Loan ID references Car Loan

Apply for PL.Username references Client

Apply for (Card ID,Username,Documents)

Apply for.Card ID references Credit Card

Apply for.Username references Client

Notes :

All approvals by an employee will be handled through the notification entity, and will be identified using the type attribute.