Relational Schema

Client(<u>username</u>, firstname, lastname, email, password). SystemAdmin(<u>username</u>, firstname, lastname, email, password).

Loan(<u>username</u>, <u>bankID</u>, <u>loanNumber</u>, amount, interestRate, type, installmentPerMonth, remainingBalance, rateType) username references Client. bankID references Bank.

Bank(<u>bankID</u>, name, routingNumber)
BankBranches(<u>bankID</u>, <u>branches</u>).
BankServicesOffered(<u>bankID</u>, <u>servicesOffered</u>).

ReportTheft(<u>bankID</u>, <u>username</u>) Username references Client. bankID references Bank.

ReportProblemClient(<u>bankID</u>, <u>username</u>). Username references Client. bankID references Bank.

ReportProblemSystemAdmin(<u>bankID</u>, <u>username</u>). Username references SystemAdmin. bankID references Bank.

TransactionLog(<u>transactionNumber</u>, type, date, To, From, Amount).
Receive(<u>username, transactionNumber</u>)
Username references Client.
transactionNumber references TransactionLog.

CreditCard(<u>cardNumber</u>, CVC, type, cardHolderName, PIN, expirationDate, issueDate, <u>usename</u>, <u>BankAccount_id</u>, <u>Bank_bankID</u>) username references Client.

BankAccount_id references BankAccount.

Bank_bankID references Bank.

CreditCardTransactions(cardNumber, transaction).

BankAccount(<u>id</u>, type, balance, <u>username</u>). username references Client.

BankTransactions(<u>id. transaction</u>)
Id references Bank.

ThirdPartyApp(<u>appld</u>, name, bankAccountId, <u>cardNumber</u>). cardNumber references CreditCard.

Reminder(<u>message</u>, client_username, date, subscribed). client_username references Client.

creditCardReminder(<u>message</u>, client_username ,date, subscribed). client_username references Client.

loanReminder(<u>message</u>, client_username, date, subscribed). client_username references Client.

otherReminders(<u>message</u>, client_username , date, subscribed). client_username references Client.

SendAnnouncements(<u>client_username, systemAdmin_username</u>) systemAdmin_username references SystemAdmin. client_username references Client.

RequestBankAccountCreation(<u>username</u>, <u>bankID</u>)
Username references Client.
bankID references Bank.