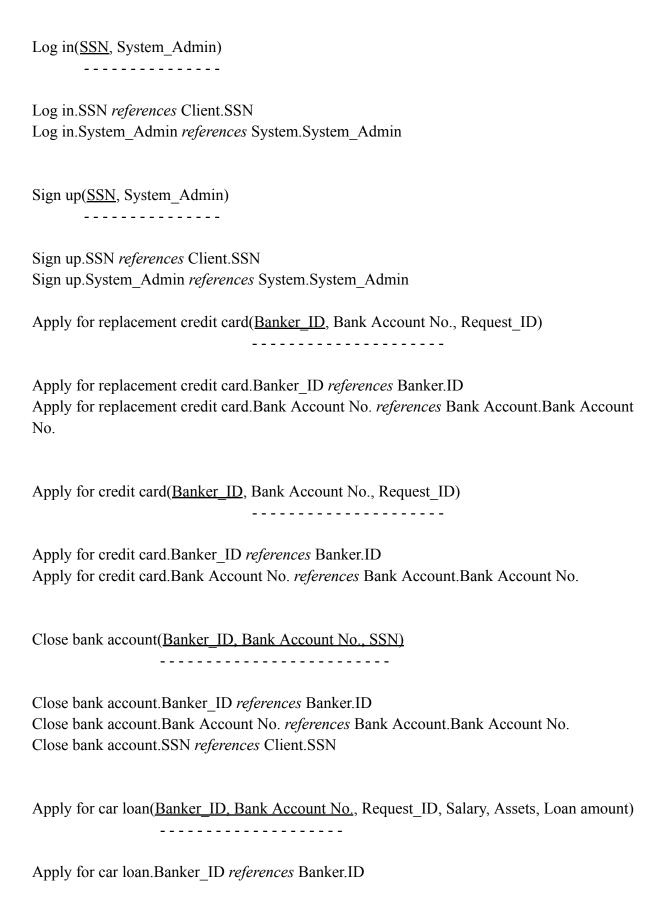Banker ( ID, Username, DOB, Password, Name)

Client( SSN, Username, Password, Name, DOB, Bank Account No., Credit Score, Address)

Bank Accounts( SSN, Bank Account No)
- - - -

Bank Accounts.SSN *references* Client.SSN
Bank Accounts.Bank Account No. *references* Client.Bank Account No.


Bank Account( Bank Account No., SSN, Bank Transactions log)
- - - -

Bank Account.SSN *references* Client.SSN

Bills ( ID, Bank Account No., SSN, Type, Amount, Deadline)
- - - - - - - - - - - - - - - - -

Bills.Bank_Account_No. *References* Bank Account.Bank_Account_No.
Bills.SSN *references* Client.SSN

Credit Card (CC No., Bank Account No., SSN, Balance, Bill, Expiration date, Points, CC Transaction
- - - - - - - - - - - - - - -
log)

Credit Card.Bank_Account_No. *References* Bank Account.Bank_Account_No.
Credit Card.SSN *references* Client.SSN

Regular loan( ID, Bank Account No., SSN, Installment rate, Duration, loan amount, Deadline per
- - - - - - - - - - - - - - - -
installment)

Regular loan.Bank_Account_No. *References* Bank Account.Bank_Account_No.
Regular loan.SSN *references* Client.SSN

Car loan(ID, Bank Account No., SSN, Deadline per installment, Car No., Installment rate, Duration,
- - - - - - - - - - - - - - - -

Loan amount)

Car loan.Bank_Account_No. *References* Bank Account.Bank_Account_No.
Car loan.SSN *references* Client.SSN


System( <u>System_Admin</u> )


Cashback Businesses(<u>ID</u>)

Report CC theft/damage/loss(<u> Banker_ID, SSN,</u> Report_ID, Report type, Credit card no.)
                 - - - - - - - - - - - -


Report CC theft/damage/loss.Banker_ID *references* Banker.ID
Report CC theft/damage/loss.SSN *references* Client.SSN


Send updates about report(<u>Banker_ID, SSN,</u> Report_ID)
                - - - - - - - - - - - -


Send updates about report.Banker_ID *references* Banker.ID
Send updates about report.SSN *references* Client.SSN


Open bank account(<u> Banker_ID, SSN</u>)
              - - - - - - - - - - - -

Open bank account.Banker_ID *references* Banker.ID
Open bank account.SSN *references* Client.SSN


Send notification for issue resolution(<u>SSN</u>, System_Admin, Issue ID)
                    - - - - - - - - - - - - - -

Send notification for issue resolution.SSN *references* Client.SSN
Send notification for issue resolution.System_Admin *references* System.System_Admin

Log in(SSN, System_Admin)
- - - - - - - - - - - - - - -

Log in.SSN *references* Client.SSN
Log in.System_Admin *references* System.System_Admin


Sign up(SSN, System_Admin)
- - - - - - - - - - - - - - -

Sign up.SSN *references* Client.SSN
Sign up.System_Admin *references* System.System_Admin

Apply for replacement credit card(Banker_ID, Bank Account No., Request_ID)
- - - - - - - - - - - - - - - - - - - -

Apply for replacement credit card.Banker_ID *references* Banker.ID
Apply for replacement credit card.Bank Account No. *references* Bank Account.Bank Account
No.


Apply for credit card(Banker_ID, Bank Account No., Request_ID)
- - - - - - - - - - - - - - - - - - - -

Apply for credit card.Banker_ID *references* Banker.ID
Apply for credit card.Bank Account No. *references* Bank Account.Bank Account No.


Close bank account(Banker_ID, Bank Account No., SSN)
- - - - - - - - - - - - - - - - - - - - - - - -

Close bank account.Banker_ID *references* Banker.ID
Close bank account.Bank Account No. *references* Bank Account.Bank Account No.
Close bank account.SSN *references* Client.SSN


Apply for car loan(Banker_ID, Bank Account No., Request_ID, Salary, Assets, Loan amount)
- - - - - - - - - - - - - - - - - - - -

Apply for car loan.Banker_ID *references* Banker.ID

Apply for card loan.Bank Account No. *references* Bank Account.Bank Account No.


Approve/disapprove CC/regular/car loan application(Banker_ID, Bank Account No., Request
                                  - - - - - - - - - - - - - - - - - - - - - -
ID)

Approve/disapprove CC/regular/car loan application.Banker_ID *references* Banker.ID
Approve/disapprove CC/regular/car loan application.Bank Account No. *references* Bank
Account.Bank Account No.


Apply for regular loan(Banker_ID, Bank Account No., Request ID, Salary, Assets, Loan amount)
                     - - - - - - - - - - - - - - - - - - - - - -

Apply for regular loan.Banker_ID *references* Bank.ID
Apply for regular loan.Bank Account No. *references* Bank Account.Bank Account No.


Report technical issues(SSN, System_Admin, Issue ID)
                      - - - - - - - - - - - - - -

Report technical issues.SSN *references* Client.SSN
Report technical issues.System_Admin *references* System.System_Admin

Send notifications for bank announcements(SSN, System_Admin)
                                 - - - - - - - - - - - - - -

Send notifications for bank announcements.SSN *references* Client.SSN
Send notifications for bank announcements.System_Admin *references* System.System_Admin


View CC points(CC No., SSN)
                - - - - - - - - -

View CC points.CC No. *references* Credit card.CC No.
View CC points.SSN *references* Client.SSN


View CC transactions(CC No., SSN)

- - - - - - - - - -

View CC transactions.CC No. *references* Credit card.CC No.
View CC transactions.SSN *references* Client.SSN


View bank account transactions(<u>Bank Account No.</u>, SSN)
- - - - - - - - - - - - - - - - -

View bank account transactions.Bank Account No. *references* Bank Account.Bank Account No.
View bank account transactions.SSNNo. *references* Client.SSN


Set reminder(<u>Bills_ID, System_Admin, Bank Account No.</u>)
– - - - - - - - - - - - - - - - - - - - - - - - - - - -

Set reminder.Bills_ID *references* Bills.ID
Set reminder.System_Admin *references* System.System_Admin
Set reminder.Bank Account No. *references* Bank Account.Bank Account No.


Receive reminder(<u>Bills_ID, System_Admin, Bank Account No.</u>)
- - - - - - - - - - - - - - - - - - - - - - - - - - - -

Receive reminder.Bills_ID *references* Bills.ID
Receive reminder.System_Admin *references* System.System_Admin
Receive reminder.Bank Account No. *references* Bank Account.Bank Account No.


Transfer money(<u>Bank Account No._1, Bank Account No._2</u>, Transfer type)
- - - - - - - - - – - - - - - - - - - - - - - - - -

Transfer money.Bank Account No._1 *references* Bank Account.Bank Account No.
Transfer money.Bank Account No._2 *references* Bank Account.Bank Account No.


Pay off CC bill(<u>CC No.</u>, Bank Account No., Pay amount)
- - - - - - - - - - - - - - - - - -

Pay off CC bill.CC No. *references* Credit card.CC No.
Pay off CC bill.Bank Account No. *references* Bank Account.Bank Account No.

Pay off bills(<u>Bills_ID</u>, Bank Account No.)
              - - - - - - - &minus; - - - - - - - - - - -

Pay off bills.Bills_ID *references* Bills.ID
Pay off bills.Bank Account No. *references* Bank Account.Bank Account No.


Redeem points(<u>ID, CC No.</u>)
               - - - - - - - -

Redeem points.ID *references* Cashback Businesses.ID
Redeem points.CC No. *references* Credit card.CC No.