

# SE Schema

Bank\_Account(Account-Number, Card's-Number, Type, Balance)  
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Bank\_Account.Card's-Number references Credit\_Card

Web\_Application\_Account(Username, Password)

Employee\_Account(Username, Password)

Guest(Guest-ID, Account-Number, Username)  
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Guest.Account-Number references Bank\_Account

Guest.Username references Web\_Application\_Account

Onboarding\_User(nationalID, Address, Name, Birthdate, age, Username, email)  
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Where Onboarding\_User.age=Current date - Onboarding\_User.Birthdate

Onboarding\_User.Username references Web\_Application\_Account

Onboarding\_User\_Phone-Number(User,Phone-Number)  
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Onboarding\_User\_Phone-Number.User references Onboarding\_User

Admin(Admin-ID, Personal\_email, Name, Username)  
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Admin.Username references Web\_Application\_Account

Admin.Phone-Number(Admin,Phone-Number)  
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Admin.Phone-Number.Admin references Admin

Credit\_Card(Card's-Number,CVV,Issue-Date,Expiry-Date,User\_ID)

Credit\_Card.User\_ID references Onboarding\_User

Points(Points-ID,Card's-Number,CVV,Expiry-Date,Value,Received-Date)

Points.(Card's-Number, CVV) references Credit\_Card

Bills(Bill-ID,Status,Amount,Due-Date, issuance\_date, Card's-Number,Loan-ID,User-ID)

Bills.Card's-Number references Credit\_Card

Bills.Loan-ID references Loan

Bills.User-ID references OnBoarding\_User

Loan(Loan-ID,Status,Amount,interest\_rate, Banker-ID,User-ID)

Loan.Banker-ID references Banker

Loan.User-ID references OnBoarding\_User

Banker(Banker-ID,Personal-Email,Name,Address,Username)

Banker.Username references Employee\_Account

Banker.Phone-Number(Phone-Number,Banker)

Banker.Phone-Number.Banker references Banker

Reports(Report-ID, national\_id, Type,Submission-Date,Status,Banker-ID)

Reports.national\_id references onboarding\_user

Reports.Banker-ID references Banker

Transaction(Transaction-ID,Receiver,Status,Date,User-ID,Card's-Number,Account-Number)

Transaction.User-ID references Onboarding\_User

Transaction.Card's-Number references Credit\_Card

Transaction.Account-Number references Bank\_Account