Credit Card Processing System

Statement
- StatementID : int (unique)
- issueDate : Date
- AmountDue : Double
- generate()

includes

Customer
- customerID : int
- name : String
- contact : Int
- AccBalance : Double
- makePayment()
- viewTransaction()
- updateContactInfo()
- requestBalance()

CreditCard
- cardNo : int (unique)
- CVV : int
- expiryDate : String
- Balance : Double
- validate()
- checkBal()
- updateBal()
- blockCard()

linked

has

<<enumeration>>
Transaction
- transactionID : int (unique)
- amount : Double
- date : Date
- status : Status
- initiate()
- confirm()
- cancel()
- refund()

<<enumeration>>
Status
- pending
- confirmed
- cancelled
- Refunded

charged / incurred

participate

Bank
- B_ID : int
- bankname : String
- BranchCode : Int
- contact : String
- authorizePayment()
- blockCard()
- settleTransaction()
- generateStatement()