Problem: Design an App for Calling Taxis (e.g. Uber)

Things:

Passenger
      Data: Name, Address, Phone, Age
      Behaviors: login, enterDestination, comfirmPickUp, requestCar, paytrip, cancel

Driver
      Data: Name, Location, Phone, DriveLicense, BankAccount, Rating
      Behaviors: login, takeOrder, pickUpPassenger, dropOffPassenger, getPaid

App
      Data: Name, Navigation, PassengerInformation, DriverInformation, VehicleInformation
      Behaviors: receiveOrder, releaseOrder, navigate, calculatePrice, manageDriver

Card
      Data: Name, Number, Company, ExpirationDate, CVV
      Behaviors:

Card Company
      Date: CompanyName
      Behaviors: authorizeTransaction

AppForCallingTaxis

Passenger ching
Driver driver
App uber
Card card
CardCompany visa
PaymentComformation approved

ching.LoginApp -> Uber
If uber.isAvailable
      ching.connectToUber
      ching.enterInformation -> pickUpLocation, dropOffLocation
      ching.requestUber -> rate, location, trip, card, uber:PaymentComformation
      Loop
            If PaymentComformation != null
                  approve = PaymentComformation
                      if ching.cancelTheOrder
                          break
                  Else

```
                              Uber.findNearestAvailableDrivers
                              uber.sendPassengerInformationToDrive
                              Driver.takeOrder
                              driver = Driver
                              driver.pickUpPassenger
                              uber.startNavigation
                              driver.finishTrip
                              uber.stopNavigation
                    End

          Else
                    ching.checkPaymentInformation
          End
Else
          Ching.checkLoginInformation
End
```