Design an app for calling taxis

Objects and Behaviors:

```
Passenger:
```

Data: name, phoneNumber, numberOfPassenger, money, location, destination Behavior: chooseLocation, setDestination, callTaxi, ride, arrive, pay, rate

Driver:

Data: name, phoneNumber, location, taxi

Behavior: shareLocation, getOrder, drive, arrive, getPaid, rate

CreditCard:

Data: number, name, company, expiry, securityCode

Behaviors: authorizeTransaction

APP:

Data: name, functions, map, wallet, interface

Behavior: provideService, connect, leadWay, makePayment

Sequence of Flow - Invoking Objects with Behaviors

```
Passenger kevin;
Driver bin;
CreditCard card;
APP taxiApp;
```

```
kevin.setDestinationFromCurrentLocation
kevin.connect -> taxiApp, bin: connected
if connected is true
```

Loop

kevin.call -> taxiApp, bin, order: create bin.getOrder -> taxiApp, kevin, order: create if kevin.wantsToGetRide and bin.isAvailable kevin.getRide -> taxiApp, bin, card bin.drive -> taxiApp, kevin, card

end

if kevin.wantsToGetRideLater kevin.doesNotCall -> taxiApp

end

if bin.isNotAvailable

bin.canNotGetOrder -> taxiApp

end

end

else

kevin.connectToAnotherUserDriver

end