

## Design an app for calling taxis

Things:

Phone

Data: Lyft, Uber, Ola etc. (taxi booking apps on phone)

Application

Data: Name

Behavior: Login, Search, Payment, Book, Cancel

User

Data: Name, Phone, emailID

Behavior: Login, giveAddress, selectTypeOfTaxi, Search, Book, Cancel booking

Driver

Data: Name, Phone

Behavior: Accept request, Reject request

Taxi

Data: Brand, Size, Occupancy

Credit Card

Data: Name, Card number, Expiry date, Security code

Credit Card Company

Data: Name

Behavior: authorizeTransaction

GPS

Behavior: trackDriver, Navigation

Fare Calculator

Behavior: calculateRideFare

Sequence:

Phone iphone  
Application lyft  
User edward  
Driver jim  
Taxi miniCooper  
paymentGateway stripe  
creditCard card  
creditCardCompany visa  
GPS googleMaps  
fareCalculator calculator  
bookingConfirmation response

```
If iphone.hasInternetConnection
  If edward.openAppSuccessful → lyft
    lyft = app
    If first time
      edward.createAccount → edward, phone, emailID: lyft
      edward.addCreditCard → visa, card: payment
    else
      edward.accountLogin → emailID, password: lyft
    end
    If create account successful or login successful
      Edward.pinPickupLocation → googleMaps
      edward.enterDestination → googleMaps
    loop
      edward.searchTaxis
      If Taxis are available
        edward.selectDesiredTaxi → miniCooper
        miniCooper = Taxi
        calculator.calculateFare → calculator
        edward.requestForTaxi
        jim.receiveRequest
        jim.acceptRequest
        response = bookingConfirmation
        edward.trackDriver → googleMaps
```

```
                If edward.wantsToCancelBooking
                    edward.bookingCancelled →
                end
                break
            else
                edward.currentlyTaxisNotAvailable
            end
        end
    else
        edward.createAccountOrLoginFailed
    end
else
    edward.openAppError
end
else
    iphone.noInternetTryLater
end
```