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