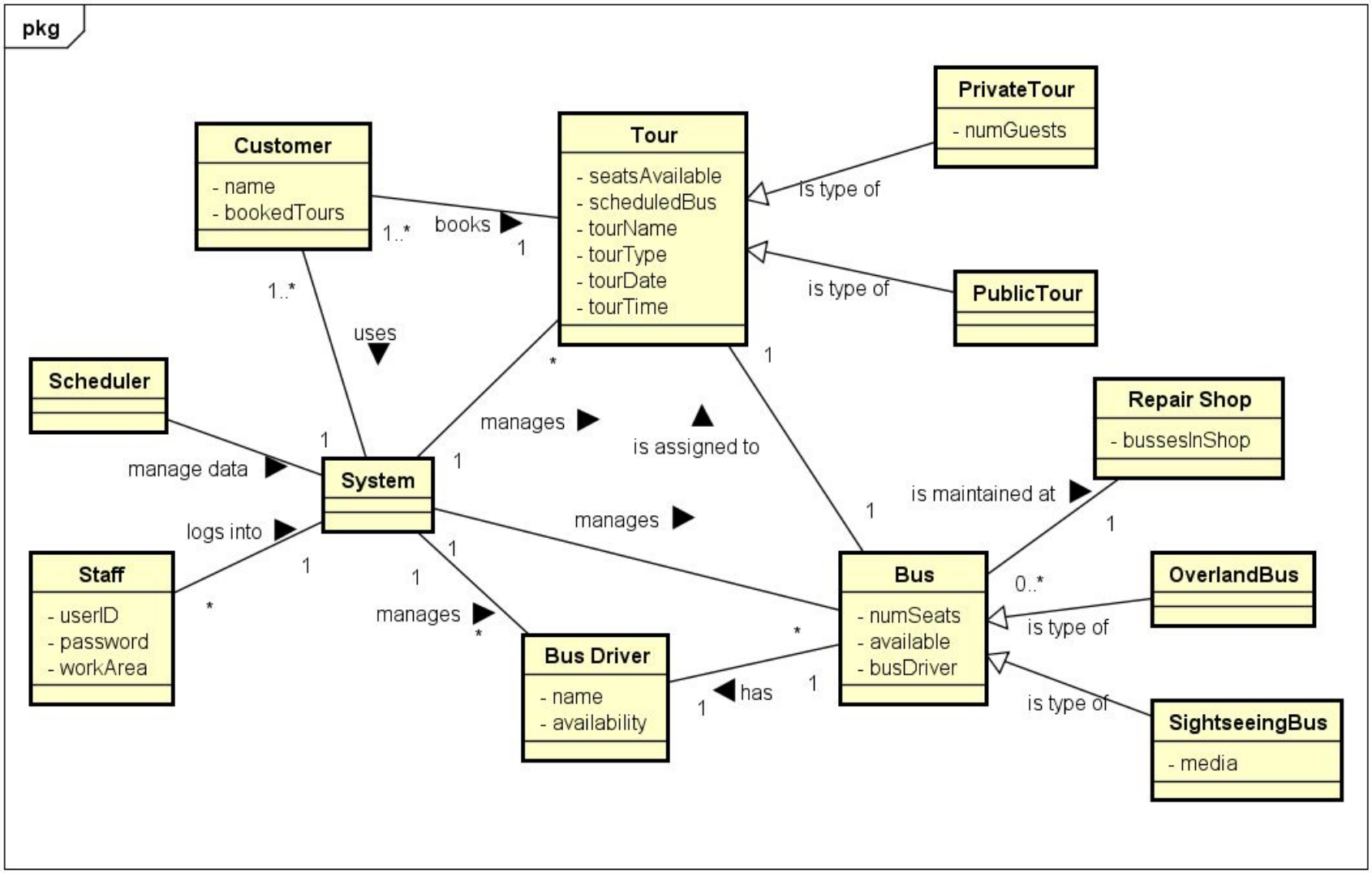
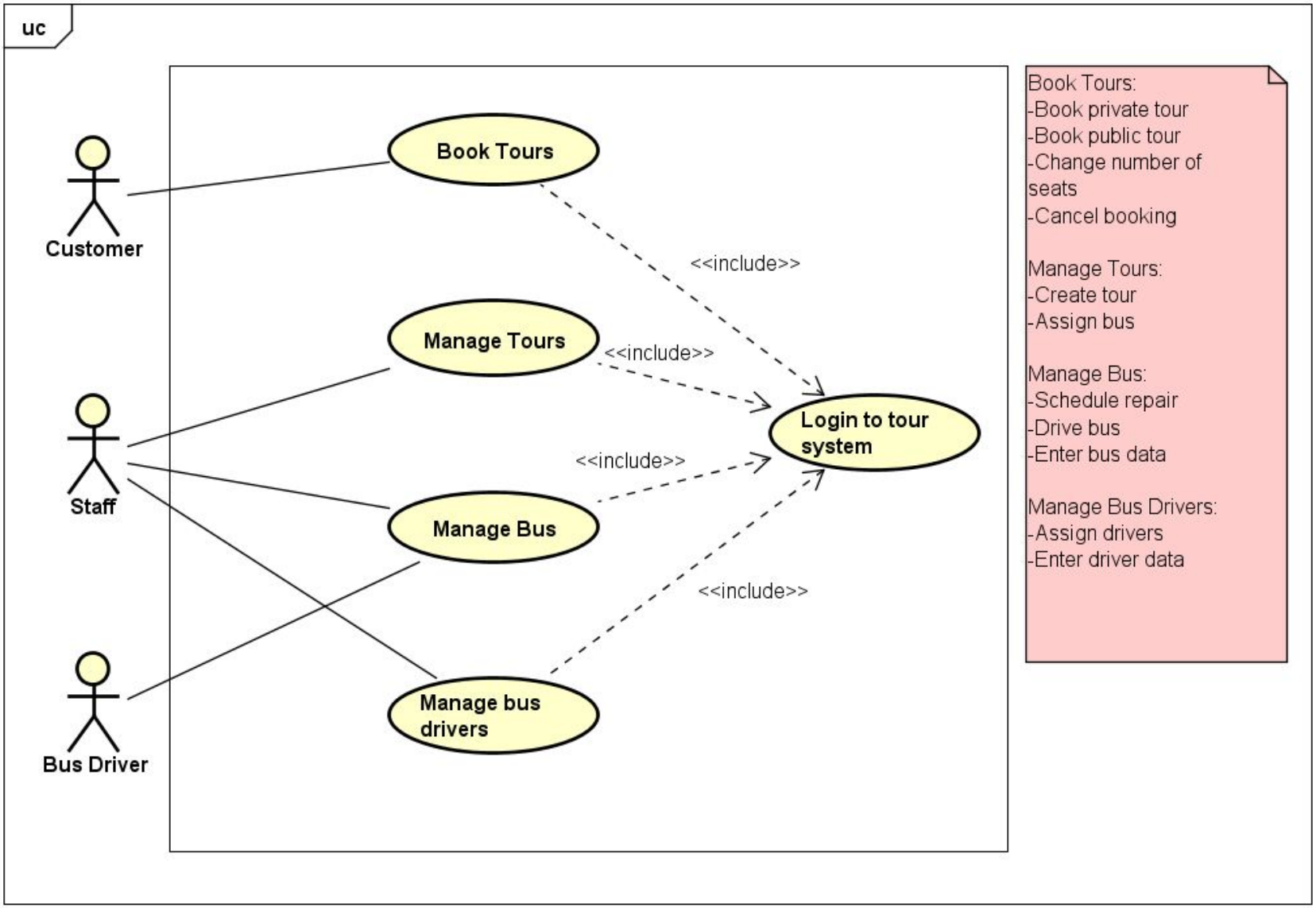
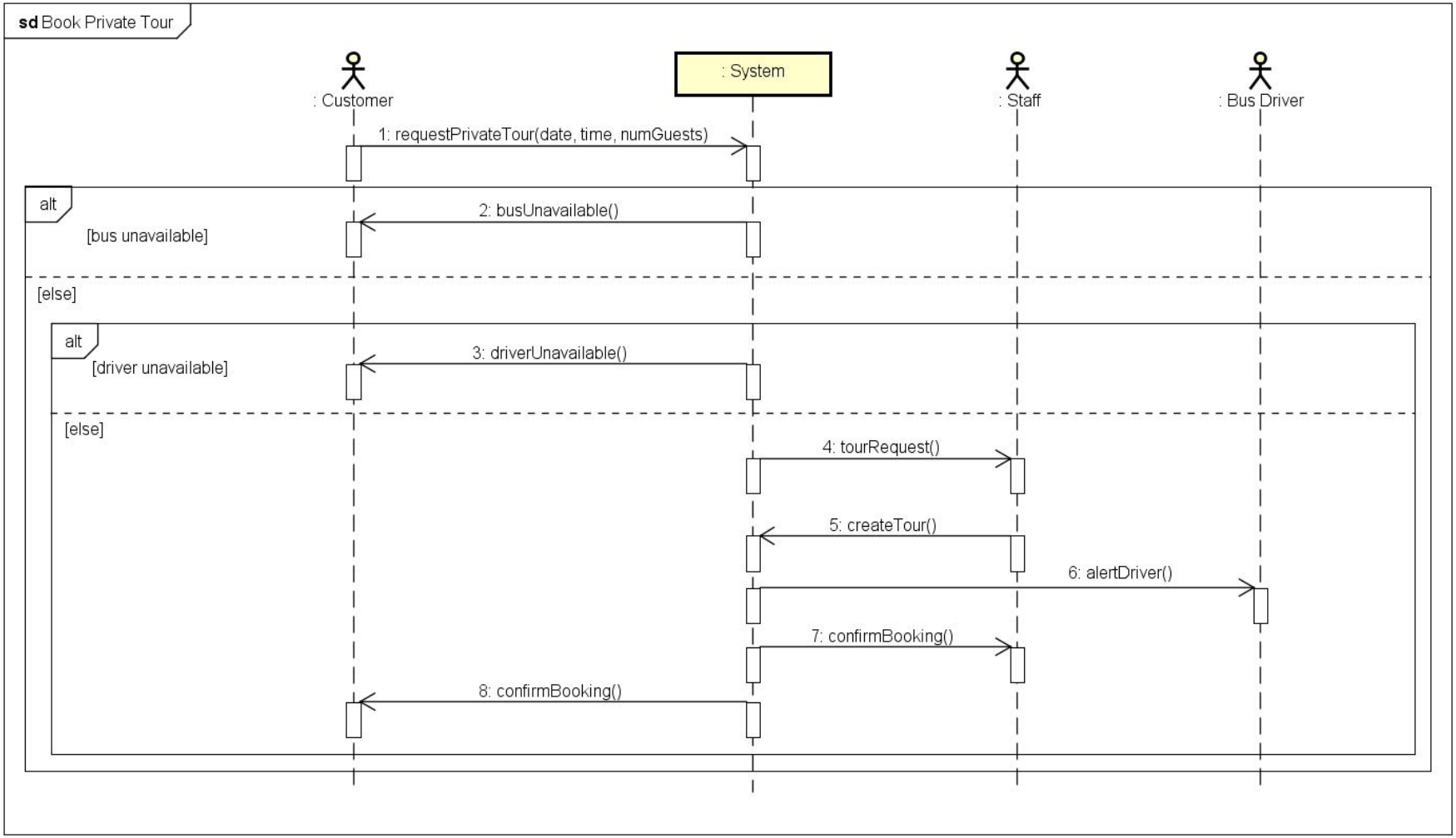
Domain Class Model

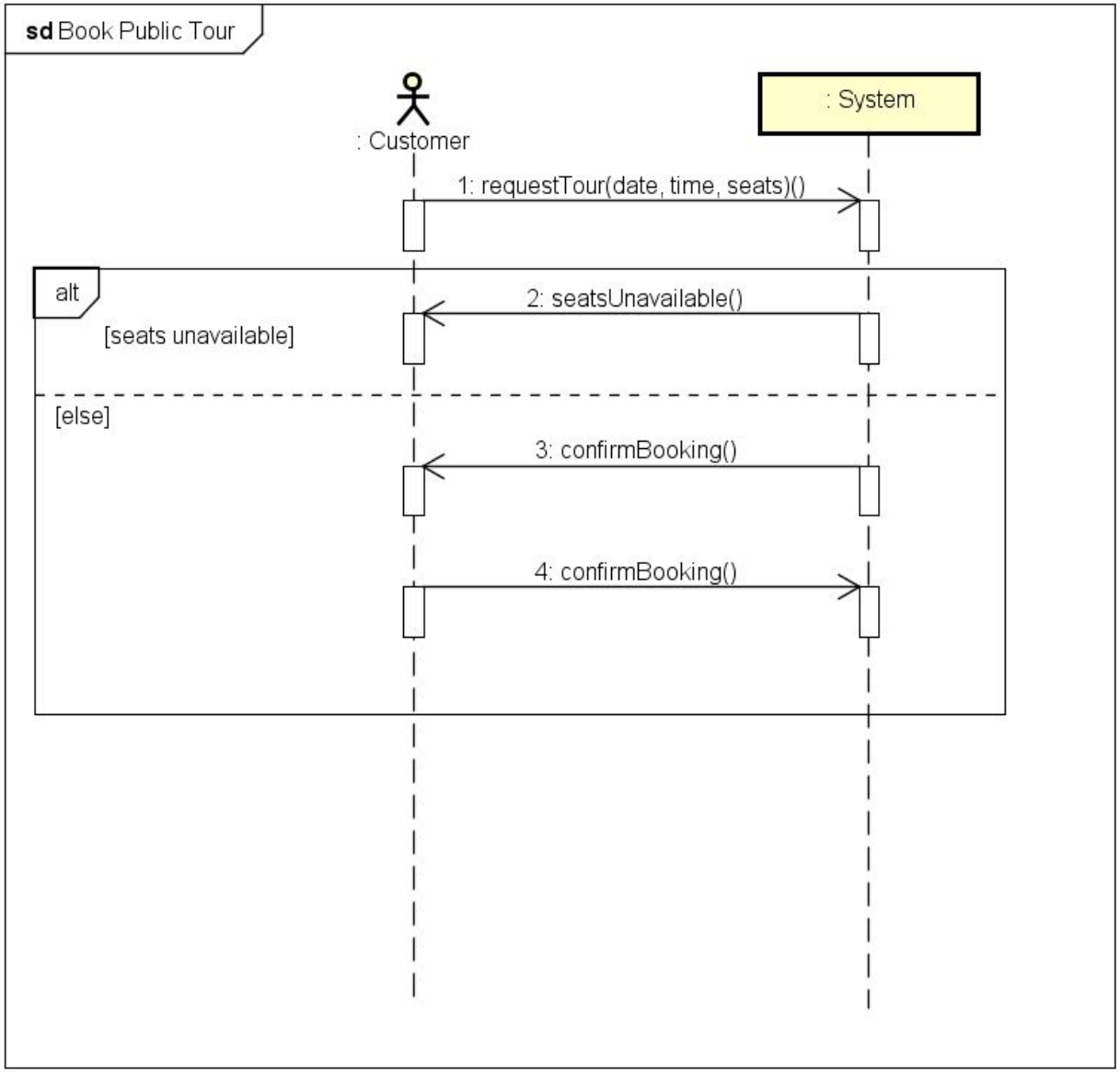


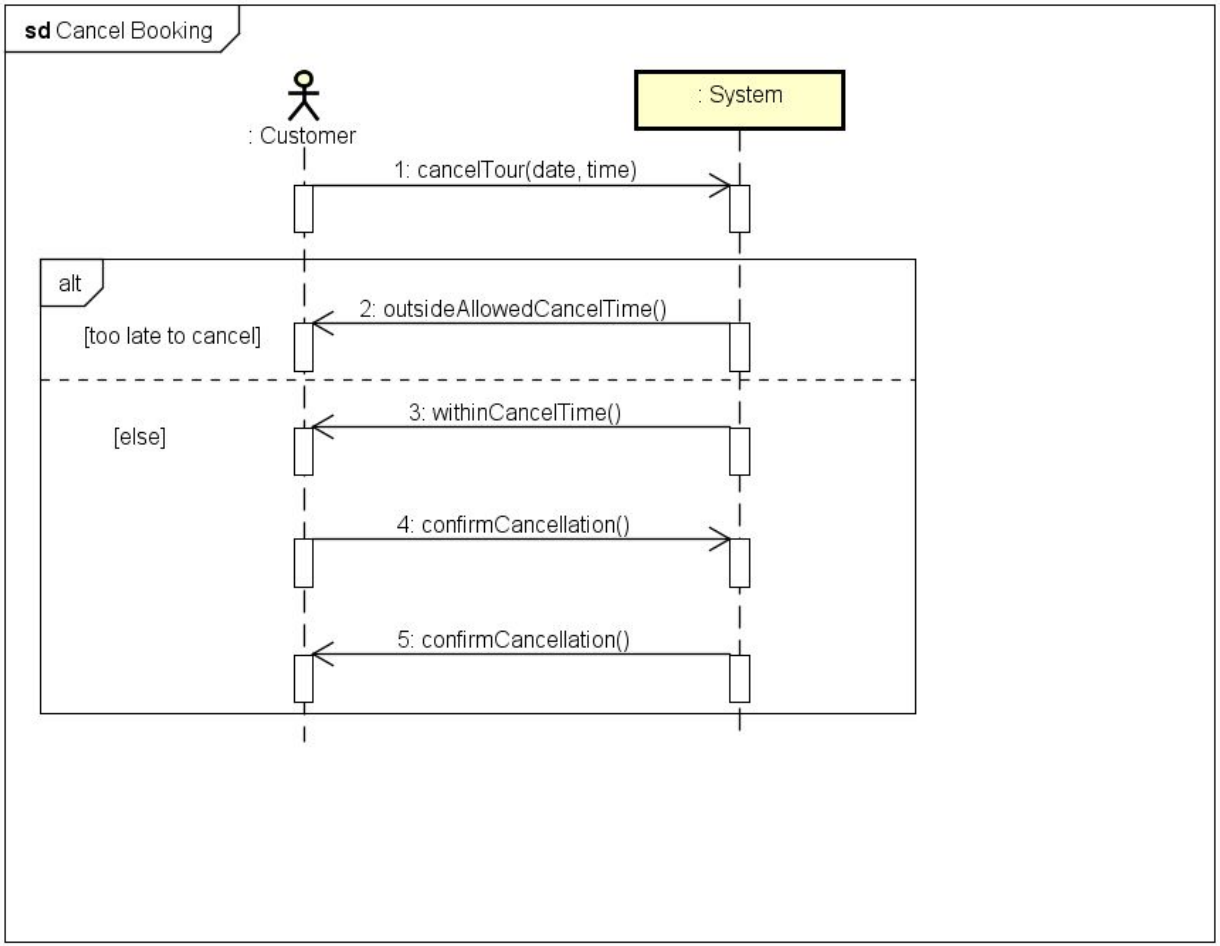
Use Case Diagram

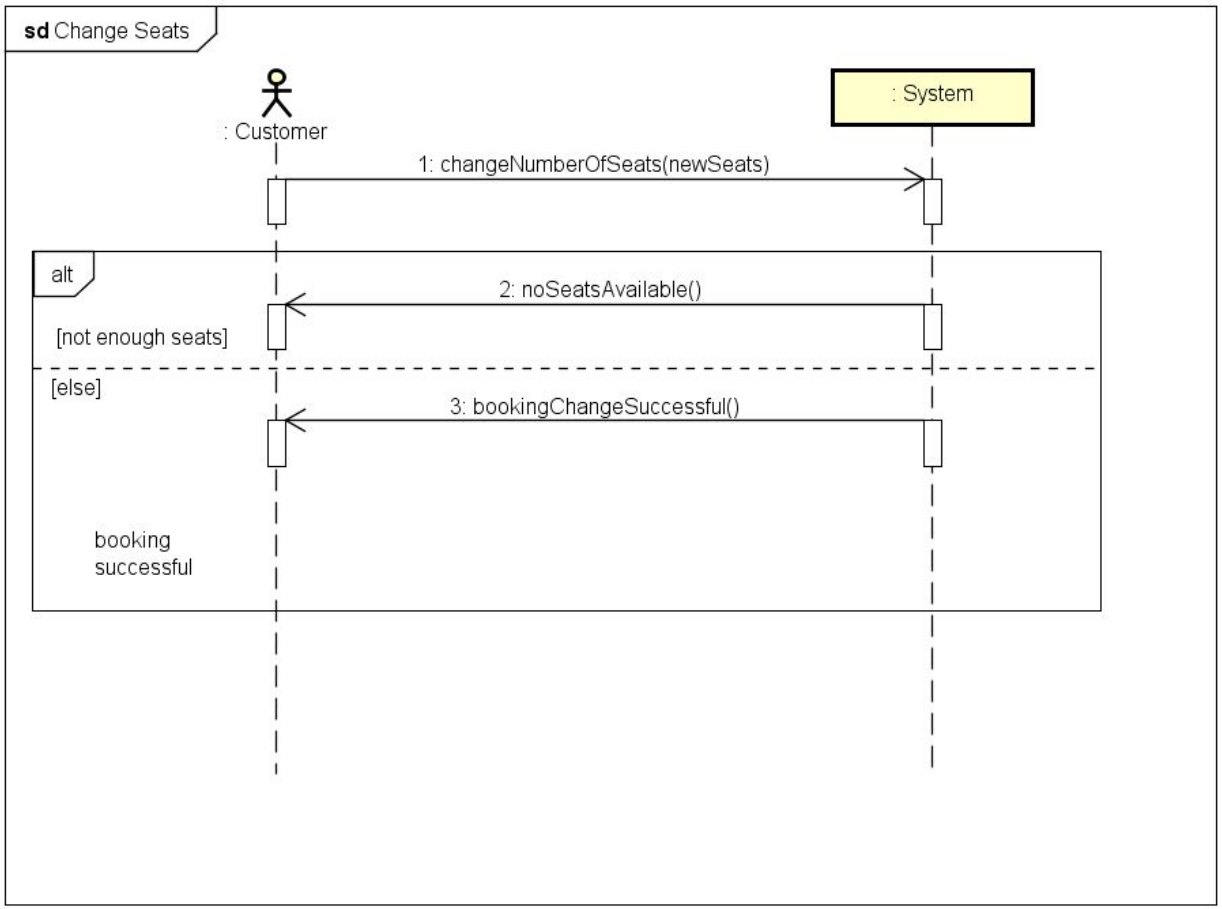


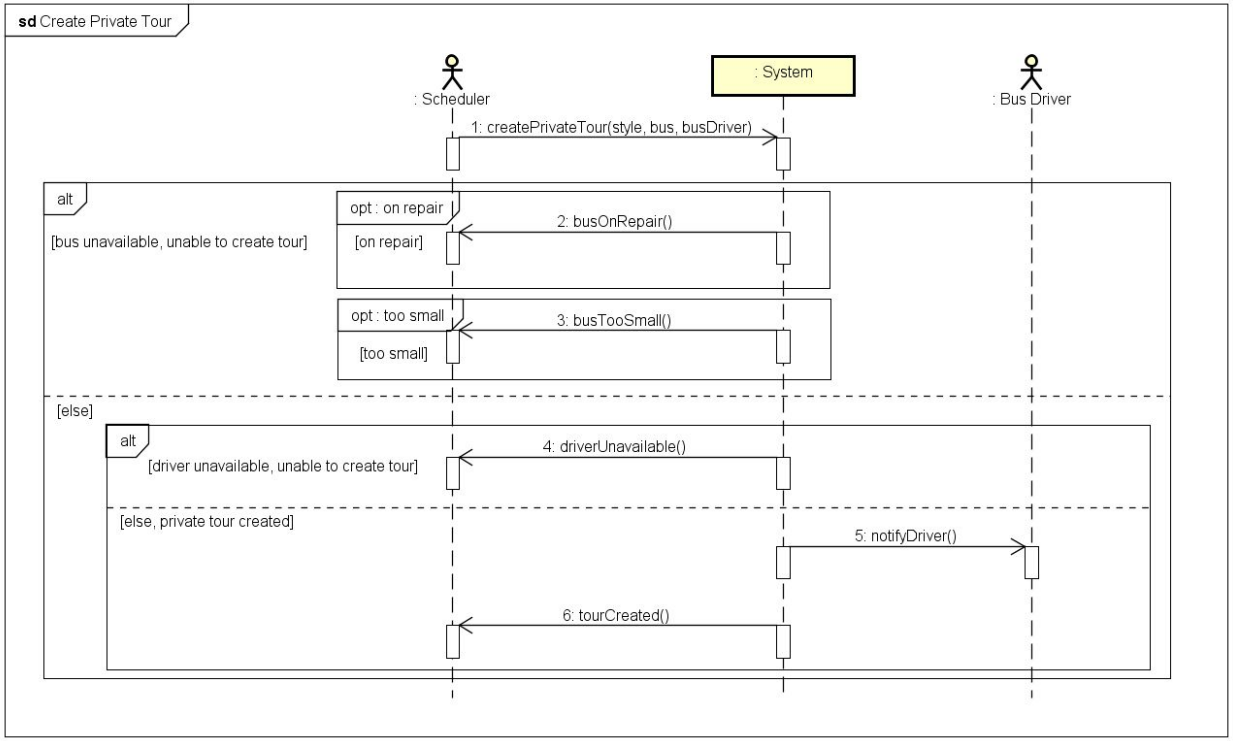
Sequence Diagrams

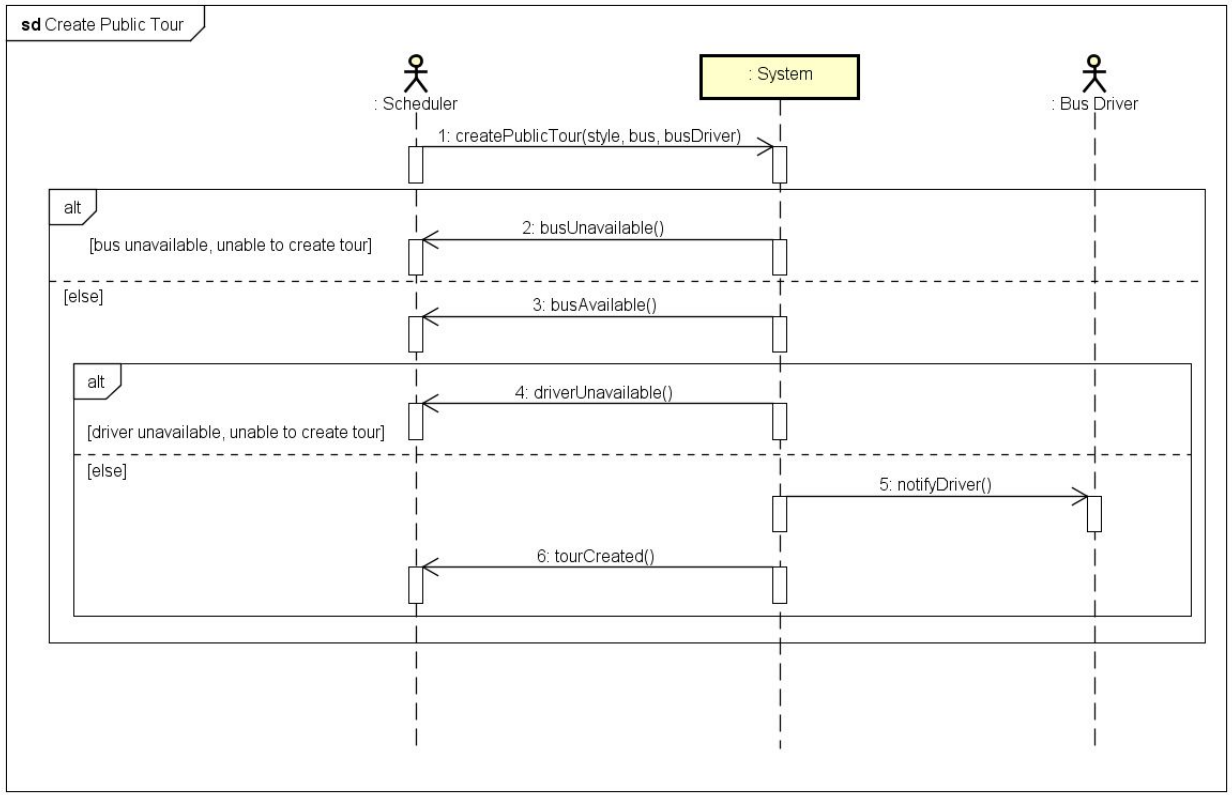


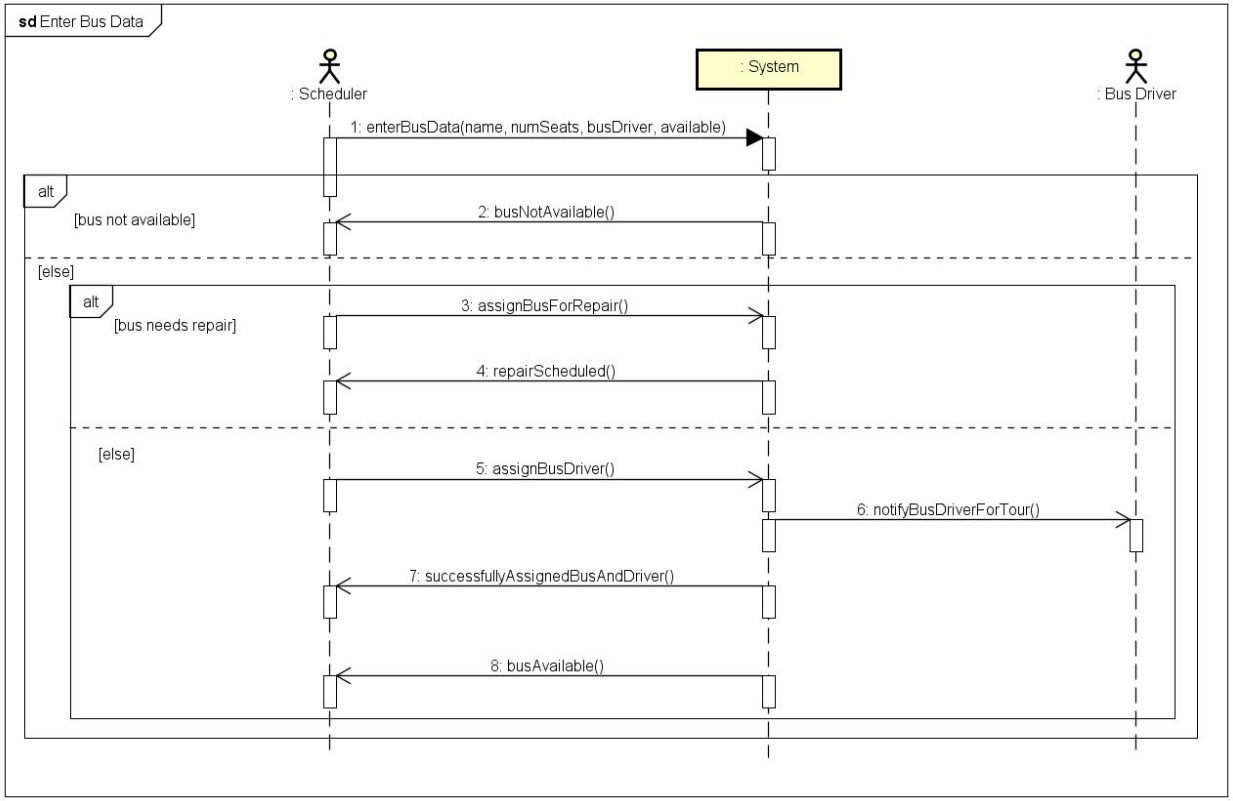

sd Book Public Tour
: Customer
: System
1: requestTour(date, time, seats)()
alt
[seats unavailable]
2: seatsUnavailable()
[else]
3: confirmBooking()
4: confirmBooking()

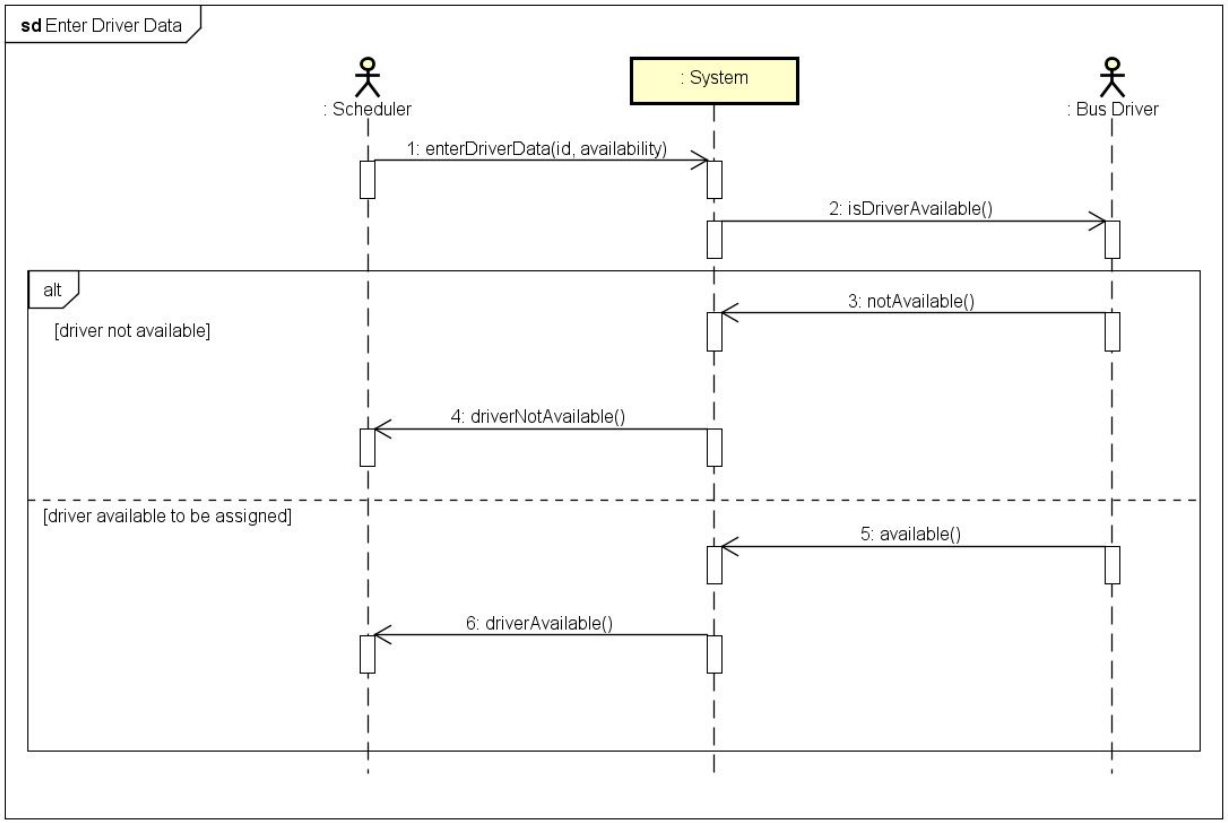

sd Cancel Booking
: Customer
: System
1: cancelTour(date, time)
alt
[too late to cancel]
2: outsideAllowedCancelTime()
[else]
3: withinCancelTime()
4: confirmCancellation()
5: confirmCancellation()

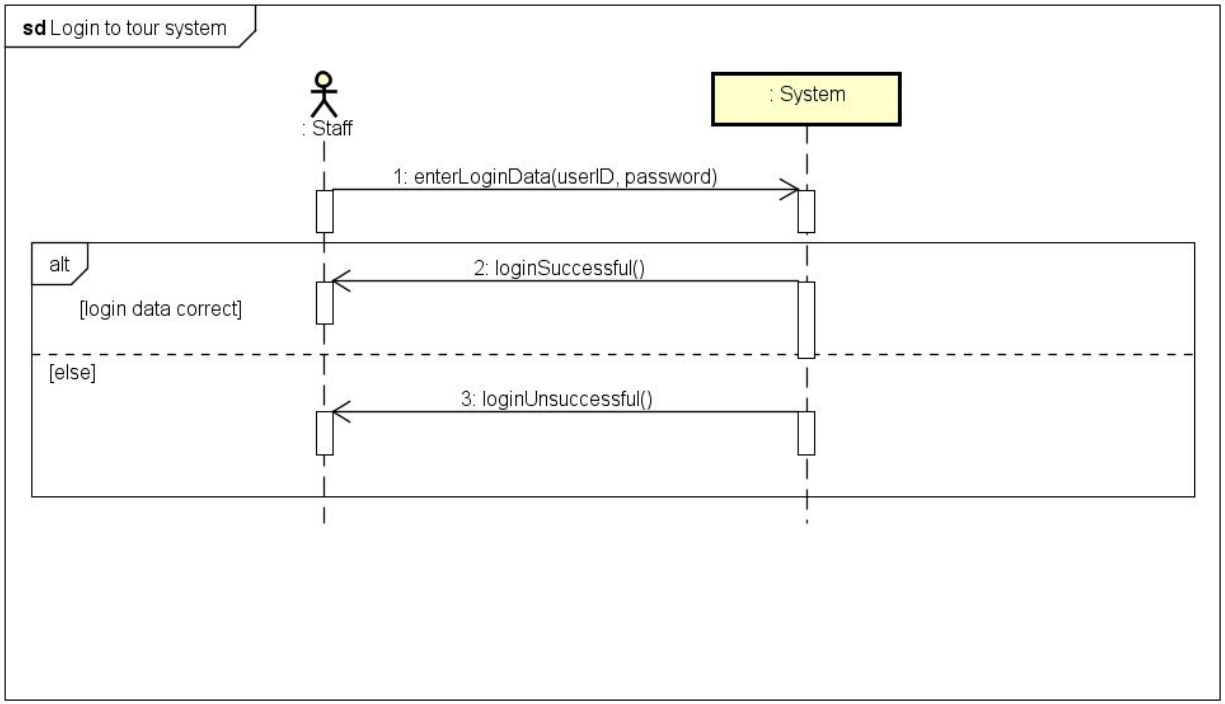

sd Change Seats
: Customer
: System
1: changeNumberOfSeats(newSeats)
alt
2: noSeatsAvailable()
[not enough seats]
[else]
3: bookingChangeSuccessful()
booking
successful

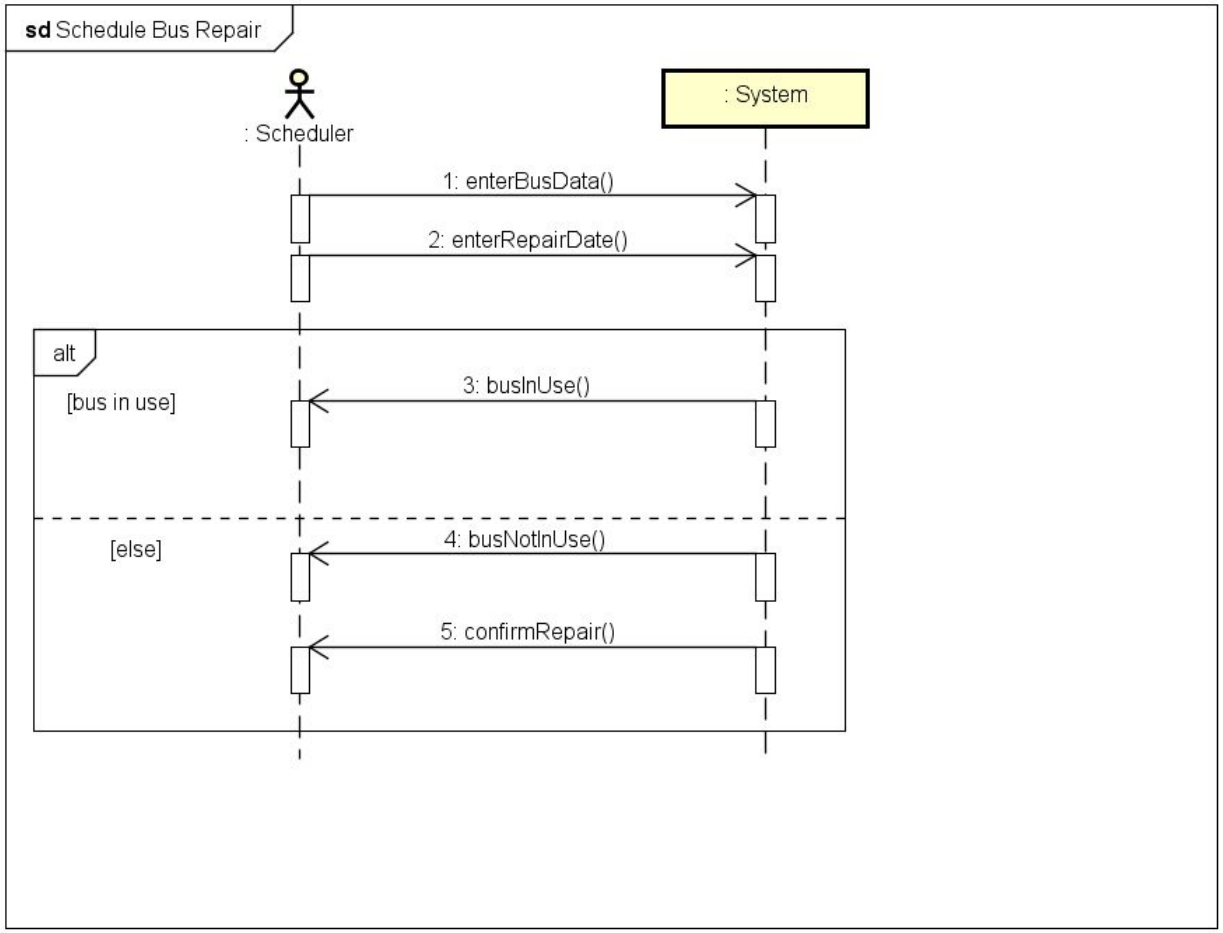

sd Create Private Tour
: Scheduler
: System
: Bus Driver
1: createPrivateTour(style, bus, busDriver)
alt
[bus unavailable, unable to create tour]
opt : on repair
[on repair]
2: busOnRepair()
opt : too small
[too small]
3: busTooSmall()
[else]
alt
[driver unavailable, unable to create tour]
4: driverUnavailable()
[else, private tour created]
5: notifyDriver()
6: tourCreated()


sd Create Public Tour
: Scheduler
: System
: Bus Driver
1: createPublicTour(style, bus, busDriver)
alt
[bus unavailable, unable to create tour]
2: busUnavailable()
[else]
3: busAvailable()
alt
[driver unavailable, unable to create tour]
4: driverUnavailable()
[else]
5: notifyDriver()
6: tourCreated()


sd Enter Bus Data
: Scheduler
: System
: Bus Driver
1: enterBusData(name, numSeats, busDriver, available)
alt
[bus not available]
2: busNotAvailable()
[else]
alt
[bus needs repair]
3: assignBusForRepair()
4: repairScheduled()
[else]
5: assignBusDriver()
6: notifyBusDriverForTour()
7: successfullyAssignedBusAndDriver()
8: busAvailable()


sd Enter Driver Data
: Scheduler
: System
: Bus Driver
1: enterDriverData(id, availability)
2: isDriverAvailable()
alt
[driver not available]
3: notAvailable()
4: driverNotAvailable()
[driver available to be assigned]
5: available()
6: driverAvailable()


sd Login to tour system
: Staff
: System
1: enterLoginData(userID, password)
alt
[login data correct]
2: loginSuccessful()
[else]
3: loginUnsuccessful()


sd Schedule Bus Repair
: Scheduler
: System
1: enterBusData()
2: enterRepairDate()
alt
[bus in use]
3: busInUse()
[else]
4: busNotInUse()
5: confirmRepair()