Table design:

Passengers

passengerID 1

SeatID 4A

Name Mike Lorengo

Contact Info 206-xxx-xxxx

Seats

SeatID 4A, 17C

SeatStatus available, swappable, occupied

Offers

OfferID

PassengerID

Description

OfferType (drink, meal, digeplayer)

SeatID

Function:

SwapSeat(Passenger, OriginalSeat, DesiredSeat)

Passenger.seatID = desired.seatID

DesiredSeat.status = occupied

Originalseat.status = available

SwapSeat(Passenger1, Passenger2, offerID)

tempSeatID = passenger1.seatID

passenger1.seatID = pax2.seatID

pax2.seatID = tempSeatID;

updateSeatStatus(seatID, seatID, occupied, occupied);

deleteOffer(offerID);

passenger1.seatID = tempSeatID;

CreateOffer(Passenger, Offer)

Write offer record to database (passenger.Id, passenger.seatID)

Seat = new Seat(passenger.seatID, status.swappable);

Update Seats (seat)

ViewOffer(seat.ID)

GetOfferforSeatID