



Assignment

Title : **ONLINE TRANSPORT TICKET BOOKING SYSTEM**

Group No : 19

Course Teacher: Manzur H.Khan

Course : Object Oriented Analysis & Design.

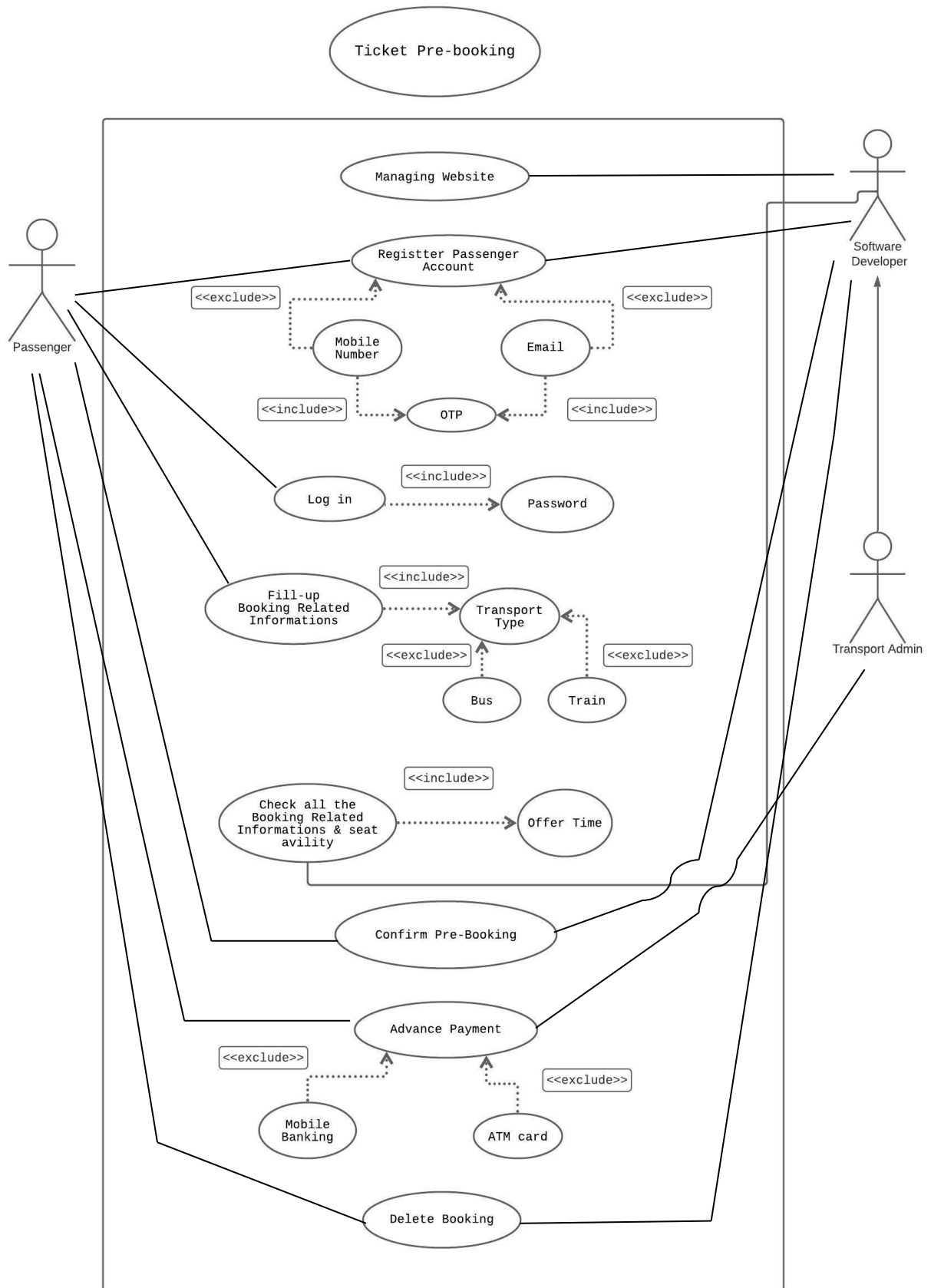
Section : E

Deadline : 13-03-2021

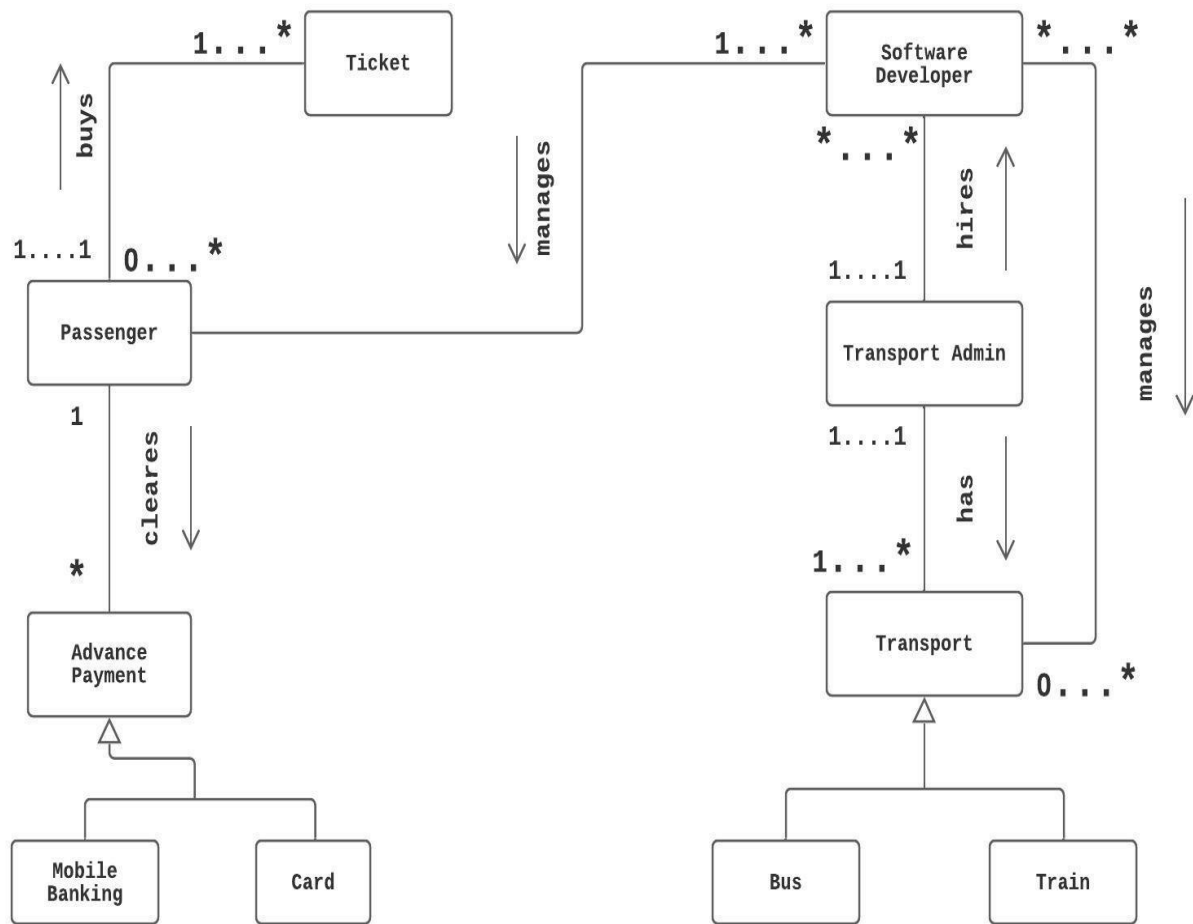
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ONLINE TRANSPORT TICKET BOOKING SYSTEM

An online transport ticket booking system is a management system that acts as a pre-booking of tickets between passengers and transport admins. The system is designed for the time saving ticket booking through online, where the transport can be bus or train. The system contains some software developer under transport admin, who can manage the journey related information of passenger. They can propose a website of the system. On the other hand, passengers can register their id using mobile number or email, then login with the username & password and enter booking related information such as destination, transport type: bus or train, preferred seat type, departure time, advance payment method etc. The system provides the developers to find preferred tickets for passengers. Besides, passengers can delete their booking too. And the system will automatically return the money.



a. USE CASE DIAGRAM



b. CLASS DIAGRAM

Passenger
<ul style="list-style-type: none"> - PassengerID : integer {assigned by system} - PassengerName : String {Maximum 30 characters} - Password : String {8 characters including upper cases, lower cases, numbers} - Address: String - PassengerMoblieNo : integer {Maximum 11 characters } - PassengerEmail : integer {Maximum 40 characters } #TicketNo : String
<ul style="list-style-type: none"> + getPassengerID () : integer + setPassengerRegistration (name : String, address : String, mobileNo : interger, email : String, password: String) + Login () : void {depends on password accuracy} + Logout () : void + SearchForTransport () : void + BookTicket () : void + getTicketNo () : String + /MakePayment () : void + CancelTicket () : void

Admin
<ul style="list-style-type: none"> - DeveloperID : integer {assigned by system} + Helpline : integer {Maximum 11 characters } # TransportNo : integer {assigned by system} # TicketNo : String
<ul style="list-style-type: none"> + getHelpline (phoneNo: integer) + getTransportNo () : integer + getTicketNo () : String + CheckPassengerDetails () : void + CheckTransportDetails () : void + CheckTicketAvailability () : integer # AddVisitingRecord () : void # UpdateVisitingRecord () : void # DeleteVisitingRecord () : void {auto deleted}

TicketDetails
<ul style="list-style-type: none"> - NumbersOfTotalTickets : integer -/NumbersOfAvailableTickets : integer {calculated by system} - NumbersOfBookedTickets : integer - Destination : String - TransportType : String {bus/train} - TransportTemperature : String {AC, non-AC} - SeatType : String {chair/cabin; cabin will not applicable for bus} - SeatLocation : String {chair : window side/ not window side ; cabin : up bed/ down bed} - DepartureTime : time {assigned by system} - DepartureDate : date - TicketPrice : integer {categorized} - TicketNo : String
<ul style="list-style-type: none"> + getNumbersOfTotalTickets () : integer +/getNumbersOfAvailableTickets () : integer + setNumbersOfBookedTickets () : integer + setDestination () : String + setTransportType () : String + getDepartureTime () : time + getDepartureDate () : date + setPreferency (temperature : String, seatType : String, location : String) + getTicketPrice () : integer + getTicketNo () : String + printTicketSlip () : void

c. DETAIL DESIGN

Class:	Passenger
Description:	Keep track of passenger's info and gives the user ability to log in, set profile, use application and cancel ticket.
Responsibilities:	Collaborators:
Set Profile	Passenger profile
Application	Registration
Cancel key to reset	Cancel key
Display greeting	User info message

Class:	Admin
Description:	Keep track of passenger's info and gives the ability to send confirm message, secure transaction to send OTP, update visitor record in database to friendly use next time.
Responsibilities:	Collaborators:
Confirm transaction	Sending OTP message
Update visitor record	Database
Delete visitor record	Cancel key

Class:	TicketDetails
Description:	Keep track of registration
Responsibilities:	Collaborators:
Eject receipt	Send receipt
Payment detail	Financial report

d. CRC CARDS