CSE 3330 – Database Systems
Project 3: Description and Deliverables
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Due Date: 04/12/2015

Consider the relational schema and instances from project 1 for completing this assignment. You need to complete this assignment with Java and MySQL. We will use MySQL RDBMS on Omega for this project.

## Requirement

1. Create a reservation front end for your database designed in project 1. The program interacts with the user through a simple menu that has the following options:

## a. Reservation

This option first prompts the user to enter a flight number, departure airport (code), arrival airport, and a date. The program then finds all possible flight paths with maximum of two legs to take a passenger from the entered departure to the entered arrival airports. If there are two legs in the path, the path is considered/retrieved only if the difference between the first leg's arrival and the second leg's departure times is between 1 and 2 hours. A path should have instances for all of its legs in the date requested, for it to be listed. The program then should output the list with appropriate headers structured as follows:

Option #	Leg seq	Departure	Departure	Arrival	Arrival
		Airport	Time	Airport	Time

Where Option # denotes each individual path found.

The program the prompts the user for a choice of option # from the list, followed by a seat class, and finally a passenger ID. The program validates the passenger ID and the availability of the seat class on all the chosen option's flight legs and then updates the database to reflect this reservation.

#### Cancellation

This option prompts for a customer ID. If a customer ID is entered, the program lists all non-cancelled reservations for this customer as follows:

Reservation	Flight	Date	Departure	Arrival	Seat
seq	No.		Airport	Airport	Class

The user is then prompted to cancel a reservation by its reservation sequence in the list. If a number is chosen, the database is updated to reflect the cancellation.

# Report:

This option shows the list of all Plan:

ID	Maker	Model
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This option shows the list of all Pilot:

ID	Name
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## **Submission**

Submit, electronically, all files.

Add a header to each of your submitted files submission using following format:

-- Class: CSE 3330 -- Semester: Spring 2015

-- Student Name: your name (Last, First)

-- Student ID: your id -- Assignment: project #3

The contents of these files should be as follows:

- 1. The source code of your program.
- 2. An output capture of sample runs, in which all program options are tested.

For the electronic submission purposes, combine all of the required files in a zip file names pr3\_Iname\_fname.zip and submit through BalckBoard.