**CS1555 Term Project: PittAirways**

**Limitation & Possibilities for improvement**

*Group 03*

*Ping Lang   pil8@pitt.edu*

*Matthew O’Hanlon    MAO73@pitt.edu*

**Limitation**

Some assumptions

* We assume that when there’s no flight information in the flight table, it means there’s no certain flight route in our company. We don’t allow inserting or updating price information into the price table on a not existing flight.
* We assume that in the reservation\_detail table, the date contains an actual day but no time, the time should be extract from the flight table. Because in the flight table we already have the schedule information. If the flight\_date in the reservation\_detail is an actual time that may lead to conflicts.
* We assume that if there’s a flight going to some city, there should be a return flight.

Limitations

* Customer & administration login information is not stored in table. To make it simple, we used static strings as to test the login function and the whole system.

**Possibilities for Improvement**

Robustness

* Had some error check and exception handler, but could do more. For all inputs including, filename, date and other information, should add more checking.
* Create an administration table to store the username and password for the administration. Create a user table to store the username and password for the user. And meanwhile, link the user table with the customer table.

Efficiency

* Some input validations are done by additional queries. For example, for the customer task 7 and 8, we checked if the reservation number is valid or not (the reservation exists or not). To do it, first query the reservation table to get a set of the reservation number, and then check if it contains the input reservation number.If the reservation table is extremely big, the query might take some additional speed. There should be a more efficient way to do it.
* Some parts of the code need to be refactored, but we don’t have much time to work on it though.