**Progress Report**

**Yuhan Yao (yy2564) & Xue Bai (xb347)**

1. What technologies are you are using?

Flask, MySQL, HTML, Javascript, CSS (bootstrap)

1. if you are working with a partner, how did you divide workload. Who will do which part?

Since there are some repetition in different pages, we mainly divided our workload by pages so that both of us can practice and then compare our methods so see which ones are better.

Yuhan worked on all of Public page, all of Booking Agent page, “track my spending” on Customer page and overall styling.

Xue worked on the login and registration functions, all of Airline Staff page and all of Customer page except “track my spending”.

But for SQL statements and constraints, we worked together to create views and functions so that both of us can reuse them.

1. What's your plan to finish the project in time?

We are pretty much done with most of the “seen” part of the project, but there are still a few big backend tasks, some frontend details and testing unfinished. What remains to be done are:

Backend:

* - prepared statements/stored procedure/functions/triggers that might be helpful
* - enforcing complex constraints such as preventing unauthorized users to add flight information
* - prevent cross-site scripting vulnerabilities

Frontend:

* - show number of tickets left when searching for flights
* - a few optional tasks
* - pie chart for amount of revenue

Testing:

- use sample data from the professor to test and debug our system

To finish in time, we plan to finish the backend tasks first (by 12/5) while test at the same time. Then work on the frontend tasks (by 12/8) and get to the optional tasks before demo day (12/10). Moving forward, Yuhan will work on Backend task1, frontend task1&2 and testing. Xue will work on backend task 2&3, frontend 2&3 and testing. We will cross check each other’s work and look for vulnerabilities for final debugging.

1. Are you currently facing any problems?

Yuhan finds prepared statements quite complicated. We have not validated or cleaned the text entered through text boxes and are still working on how to do this using Flask.

Xue finds the charts are not showing in the expected way and cross-site scripting vulnerabilities and complex constraints need to be taken care of carefully.

1. How many use cases have you completed so far?

We are done with all of public page, all of customer page, all of booking agent page, all of airline staff page except the pie chart.

1. Did you create the tables in the databases? Do you plan to use any additional attributes?

Yes, we created tables in our databases just as instructed. We also created views in the database for convenience of use in the backend. We do not plan to use any additional attributes, but we could consider adding the number of tickets left for each flight into the database.

1. Did you insert data in those tables?

Yes. We inserted our own testing data for now so that we can have more various use cases and therefore have a higher probability of finding bugs. But as mentioned in 3, we will test on the data given by the professor soon.