CS410J Project 5: A Rich Internet Application for an Airline (15 points¹)

In this project you will use Google Web Toolkit to implement a Rich Internet Application for your Airline application.

Goal: Gain experience writing a complex web-based user interface with Google Web Toolkit

For this project you will write a user interface using GWT that has all of the functionality of the previous assignments: creating an airline, entering flights, pretty printing an airline and its flights, searching for flights, etc..

The entry point of your user interface should be the edu.pdx.cs410J.<login-id>.client.AirlineGWT class and should be accessible via the following URL when run on the local machine in GWT development mode:

```
http://localhost:8888/AirlineGWT.html
```

The user interface² should provide a "Help" menu with a "README" menu item that displays the information for the README. Note that the application should use GWT's mechanisms for communicating with the server, you do not need to use the REST-based client you developed in the previous project.

Error handling: If something goes wrong (for example, the user provides malformed input³, your user interface should pop up a dialog box that describes the error.

This project gives you the opportunity to explore the tools that GWT provides. I encourage you to use your imagination⁴ and creativity when designing your user interface.

To aid you in setting up your Maven project, I have put together an archetype for this project. To create a GWT project execute this Maven command (remember that the backslash in the line continuation character):

```
$ mvn archetype:generate \
-DarchetypeGroupId=edu.pdx.cs410J \
-DarchetypeArtifactId=airline-gwt-archetype \
-DgroupId=edu.pdx.cs410J.<login-id> \
-DartifactId=airline-gwt -Dversion=Summer2017
```

You can build your project with mvn package and can launch GWT's development mode with mvn gwt:run. You can also run your application in production mode with mvn jetty:run-war (after doing a) mvn clean and view your application at:

http://localhost:8080/airline

Last updated July 22, 2017

¹14 for code, 1 for POA

²I highly recommend using a tool like Balsamiq (http://www.balsamiq.com to mock-up your UI before implementing it. If you do so, you should include attach it to your POA email.)

³Dates and times should be specified in the same format as the previous project.

⁴Since that the Submit program only allows you to submit .java files, I'd like you to just zip up the contents of your Maven project after performing a mvn clean and email it to sjavata@cs.pdx.edu. Please do not submit compiled artifacts such as class files and jar files.