CS166 Final Project Phase 3

Authors: Brandon Yi and Moses Park

This project implements a few functionalities one might find in a airline management system.

1. Examples

All queries and updates must be selected using the main menu in the terminal. To choose an option, enter a number 1-10.

```
(1)
(2)
Connecting to database...Connection URL: jdbc:postgresql://localhost:5025/byi006_DB

Done
MAIN MENU
------

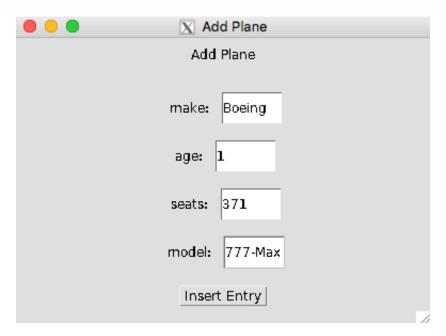
1. Add Plane
2. Add Pilot
3. Add Flight
4. Add Technician
5. Book Flight
6. List number of available seats for a given flight.
7. List total number of repairs per plane in descending order
8. List total number of passengers with a given status

10. < EXIT
Please make your choice: ■
```

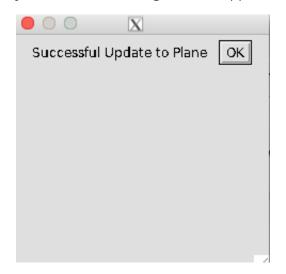
After choosing an option from the terminal, a window will be created for you to interact with. The contents of the window will vary depending on what option you choose.

Inserting Data

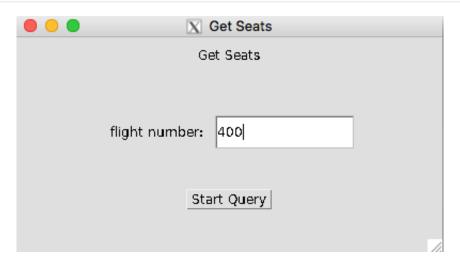
This is an example of a window where users will perform queries:



After pressing the **Insert Entry** button, the following alert will appear:



Querying Data



```
X Available Seats on Flight 400
                        Available Seats on Flight 400
195
219
171
227
188
189
166
228
190
192
185
143
233
193
150
201
226
234
167
```

The two windows above show how to execute a query and see the results. The first window to appear is an input window. After inputing the required parameters, another window will appear to show the results.

2. Deploying

Dependencies

- 1. Java (and java.awt)
- 2. Postgres

Note: For remote connections, enable X Forwarding

Start the Application

```
# Clone the git repo
git clone https://github.com/bypie5/CS166_final_project.git
cd CS166_final_project

# Deploy postgresql server
cd code/postgresql
source ./createPostgreDB.sh
source ./startPostgreDB.sh
```

```
# Start java application
cd ../java
./compile.sh

# ex: source ./run.sh byi006_DB 5025 byi006
source ./run.sh $USER"_DB" $PGPORT $USER
```