

1. Problem Statement:

Simple Graphic User Interface (GUI) searching the shortest path from one chosen airport to another, using the database established in the midterm project.

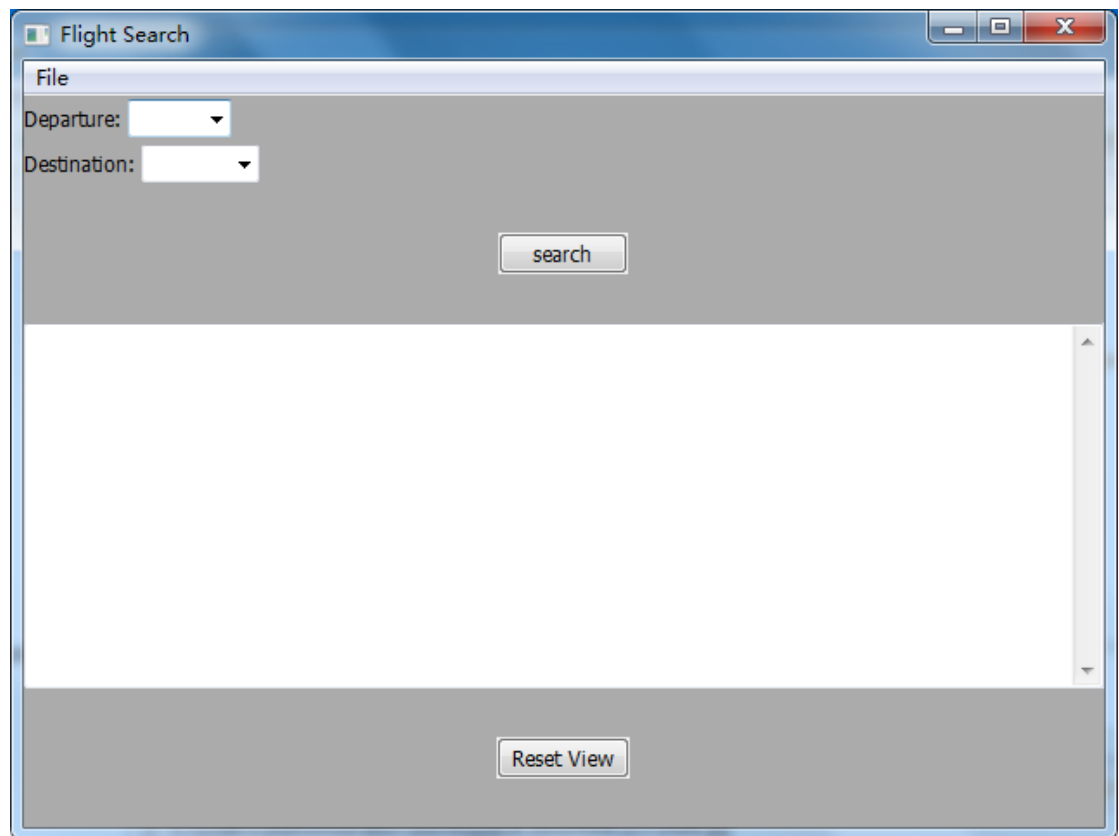
2. Algorithm

I used no panel in the program and I arrange all the objects in the window in several sizes. For each horizontal line, create a horizontal sizer for the objects in the same line. Then arrange all the horizontal sizers in one vertical sizer.

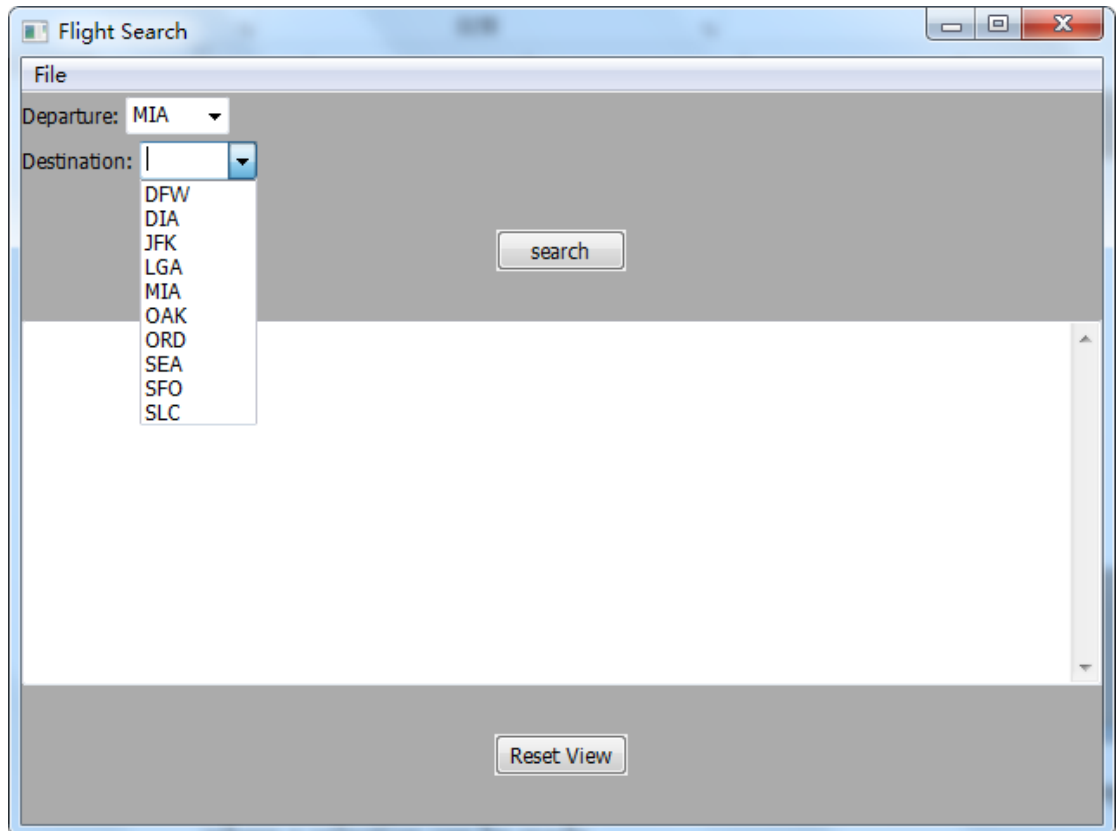
To make sure a new selection of either airport erases the text field, I created two events that correspond to new selections of the two combobox. Then implement the function of onClear to both the events, which clears the textbox.

3. Screenshots

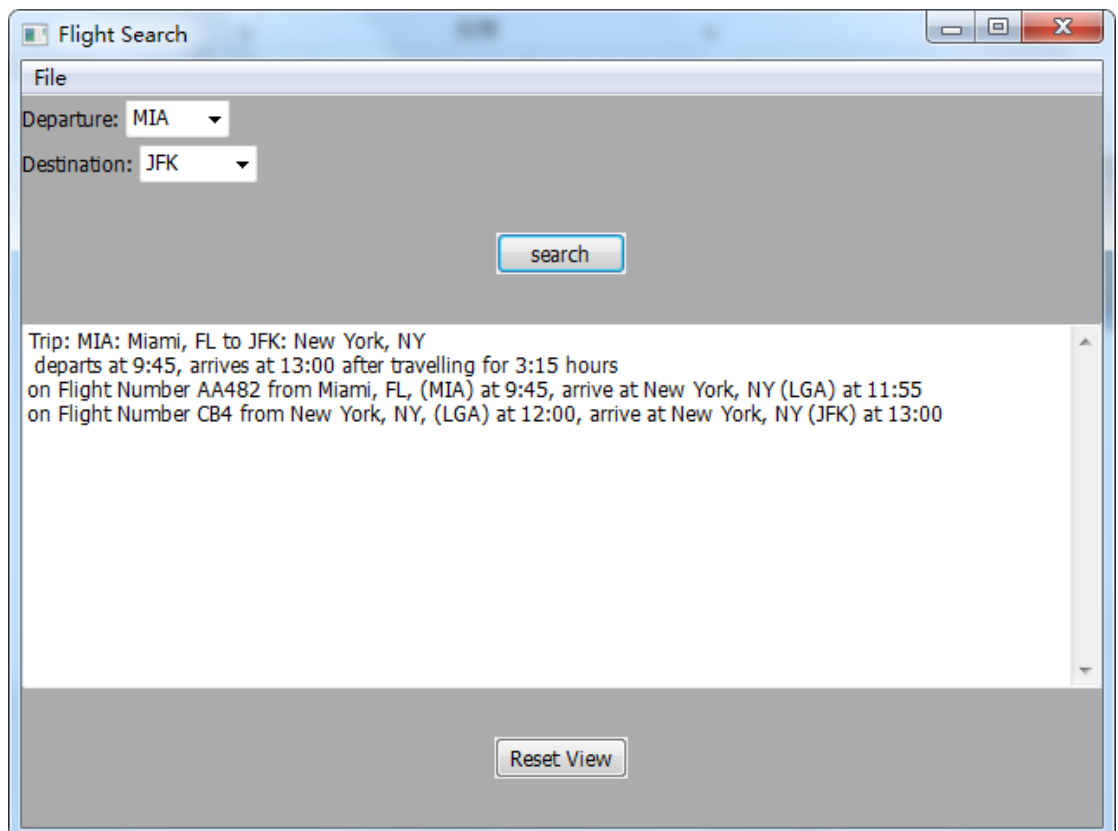
- 3.1 The starting view of the program. When executing the program, the window shows up with no selection in both comobox and a clear text field.



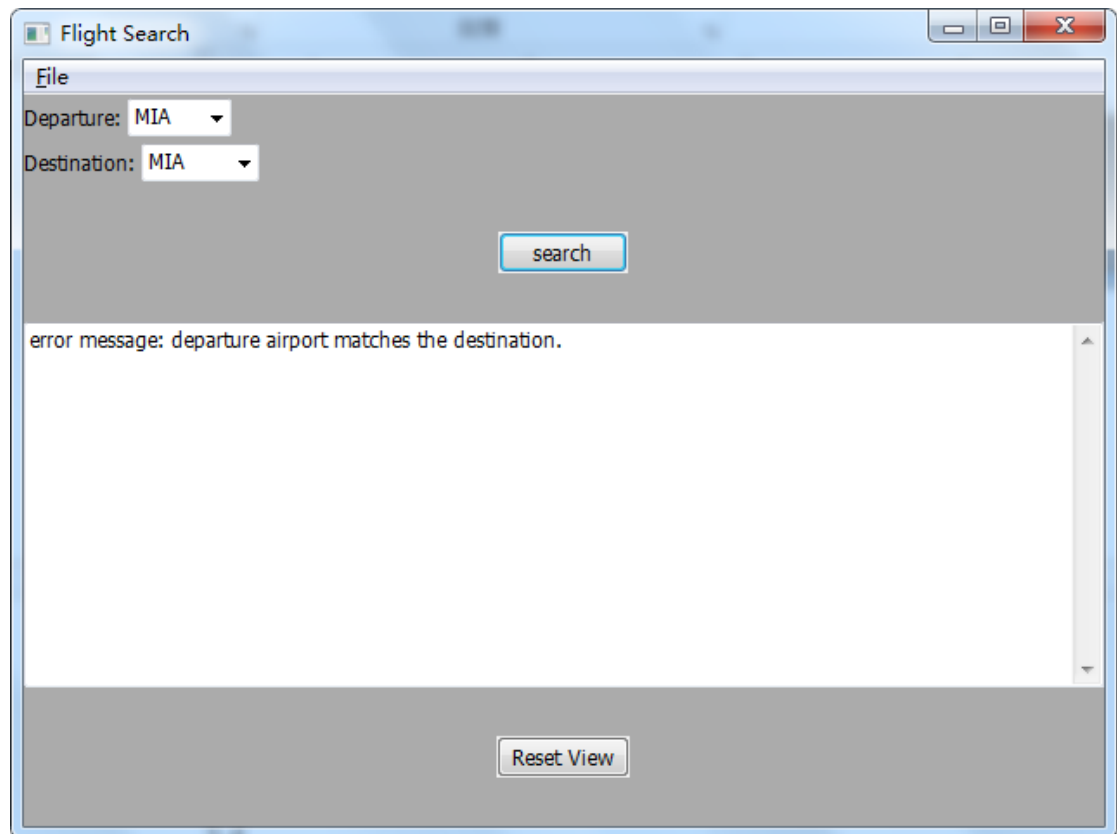
- 3.2 Selecting the airport. Click the arrow on the combobox and the drop-down list shows where a selection can be made.



3.3 Search result shown in the text field. The result includes the departure airport, destination, the departure time, arrival time, total travel time, and the flights taken in the path.



3.4 When the departure matches the destination, an error message shows up in the text field.



3.5 After a flight search, either a new selection on the departure or destination erases the text field.

