Requirements Draft

1. System shall have a user interface
   1. GUI
      1. Field for origin
      2. Field for destination
      3. Field for sorting
         1. Cost
         2. Time
         3. Airline
      4. Display results
      5. Add airports
      6. Add routes
         1. Add airline based on routes
      7. Delete
         1. Airports
         2. Routes
      8. If an airport is deleted, so are associated routes
      9. Display most current route information
      10. Display airports that can be reached from a given airport
      11. Display airlines that service a given airport
      12. Display air route info for a given route
      13. Close airport for a given time interval
2. System will read input file for display
3. System will allow user to choose origin
4. System will allow user to choose destination
5. System will give error if destination is not accessible from origin
6. System will auto connect flights
   1. At least 30 min between connecting
7. System will allow user to enter flights
   1. Error if less than 30 minutes
   2. Error if starts before midnight
   3. Error if ends after midnight
8. System will display results based on filter selected
   1. Cheapest flight
   2. Shortest total time
   3. Uses one airline most
   4. All three at once
9. System will allow user to close airports
10. System will allow user to delete airports
    1. Associated routes will be deleted as well
11. System will allow user to delete routes
12. System will have a menu bar
    1. Ability to
       1. Filter routes
       2. Add routes
       3. Close airports
       4. Add airports
       5. Delete airports
       6. Delete routes
    2. Save button to save changed
13. System will allow user to close airport
14. System will allow user to open closed airport
15. System will give error trying to open an open airport
16. System will give error trying to close a closed airport