SE 300 SRS Grading Rubric

Team: That "ONE TEAM

Criteria	Rubric	Points Available	Points Awarded	Comments
Complete	Contains an introduction describing purpose and scope, an overview giving a product description and constraints, the requirements, and references with citations throughout.	3	2.	CITATIONS BIB.
Correct	Requirements match the needs statement and intent expressed in customer interview.	3	3	
Unambiguous	Requirements are worded such that unintended meanings are not likely.	3	3	
Consistent	Requirements do not conflict internally, and use consistent language and notation.	2	2	5.4
Ranked	Requirements are ranked in terms of importance or schedule or other means.	2	2	Functional diambind
Verifiable	Requirements are stated concretely with measurable goals where possible.	3	2	
Modifiable	Document contains a revision history log.	2	9	No revision history or
Traceable	Requirements are numbered for forward traceability. Requirements refer to needs statements for backwards traceability.	2	7.	
Total		20	16	

Air Route Planner Software Requirements Specification

That "One" Team SE 300 Section 1

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Introduction

The purpose of this document is to specify the requirements for the development of an Air Route Planner. The ARP operates only during a 24 hour period (0000-2359). The system will receive airport information through a text file which contains airport route, carrier name, depart airport, arrival airport, arrival and departure times and cost. The system will calculate a travel route based on the following parts: cost, time and airline available for that time.

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Team Project Information

Course: Spring 2013 SE300 Section 1

Team: That "One" Team

Members/Roles:

• Team Leader: Brian Powell

Development Manager: Brittany RompaPlanning Manager: Craig Wilkerson

• Quality Manager: Yutong Zhu

• Req/Support Manager: Muraad Khan

Schedule

Projects launch	01/30/2013
Github & Requirements questions	02/01/2013
Strategy/Plan	02/04/2013
Project plan	02/06/2013
Interview	02/08/2013
Task	02/10/2013
	02/11/2013
Requirements	02/13/2013

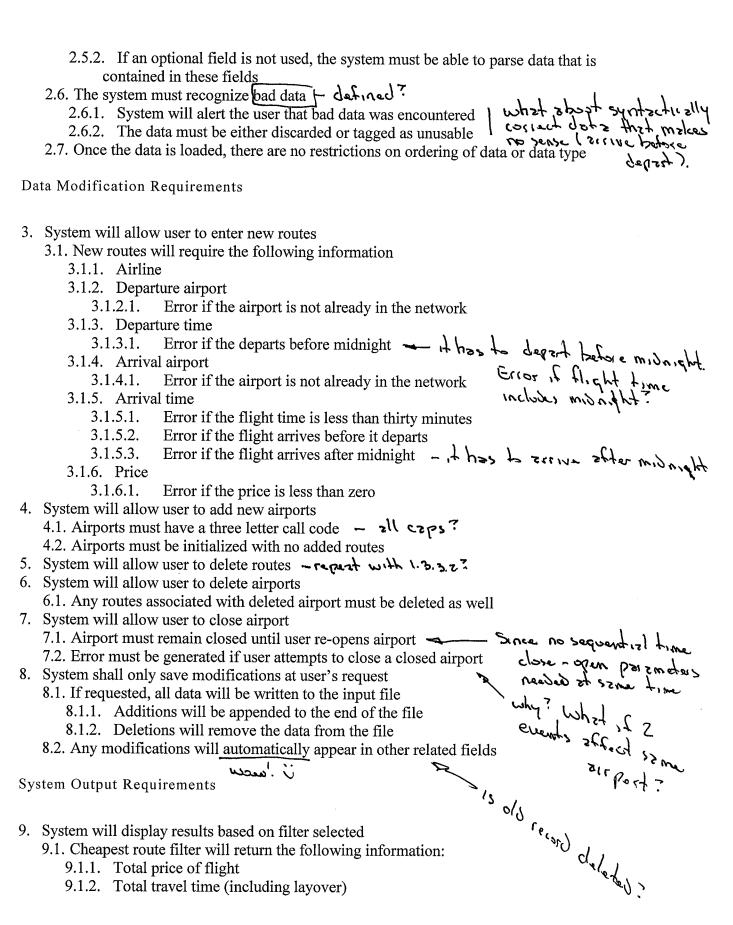
Requirements Specification

User Interface Requirements

- 1. The user interface for the program shall be of a graphical nature.
 - 1.1. The interface shall allow the user to enter:
 - 1.1.1. Origin
 - 1.1.2. Destination
 - 1.1.3. Sorting Criteria
 - 1.1.3.1. Cost
 - 1.1.3.2. Time
 - 1.1.3.3. Airline
 - 1.1.3.4. Airport
 - 1.1.3.4.1. Service to
 - 1.1.3.4.2. Service from
 - 1.2. The interface shall display the results to the user
 - 1.3. The interface shall allow the user to:
 - 1.3.1. Add/Modify airports
 - 1.3.2. Add/Modify routes
 - 1.3.2.1. Airlines based on existing routes 7
 - 1.3.3. Delete
 - 1.3.3.1. Airports
 - 1.3.3.2. Routes
 - 1.3.4. Display most current route information (i.e. all routes in network)
 - 1.3.5. Display airports that can be reached from a given airport
 - 1.3.6. Display air route information for a given route
 - 1.3.7. Close airport
 - 1.3.7.1. Re-open closed airport
 - 1.3.8. Save any modifications made

Data Input Specifications

- 2. Data will be read in from a text file
 - 2.1. Data will be separated into sections denoted by '#'
 - 2.2. The keyword "#comment" will designate a comment line that is not to be parsed by the system
 - 2.2.1. Must be first word in commented line
 - 2.3. No upper bound to the number of airports, routes or closures listed in the file
 - 2.4. All data fields are of type string
 - 2.5. Optional fields are allowed
 - 2.5.1. If an optional field is used, the system must be able to parse data that does not contain values in these fields



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- 9.1.3. Names of paths used
- 9.2. Shortest total travel time filter will return the following information:
 - 9.2.1. Total price of flight
 - 9.2.2. Total travel time (including layover)
 - 9.2.3. Names of paths used
- 9.3. Using a specific airline for the greatest percentage of time will return the following information:
 - 9.3.1. Total price of flight
 - 9.3.2. Total travel time (including layover)
 - 9.3.3. Names of paths used
- 9.4. There will be a filter that will allow the user to display all three filters at once
- 10. System shall allow the user to see all airports currently in the network
 - 10.1. Information must be tabularized for easy viewing
- 11. System shall allow the user to see all airlines that service a given airport
 - 11.1. Information must be tabularized for easy viewing
- 12. System shall allow the user to see the air route information for all routes
 - 12.1. Information must be tabularized for easy viewing
 - 12.2. Information must consist of:
 - 12.2.1. Carrier
 - 12.2.2. Departure airport
 - 12.2.3. Departure time
 - 12.2.4. Arrival airport
 - 12.2.5. Arrival time
 - 12.2.6. Price of flight

Non-Function Requirements

- 13. The program shall use twenty-four hour time format
- 14. The program shall use appropriate exception handling so that the system responds with a clear, descriptive message when an error or exceptional condition occurs.
- 15. The implementation programming language must be a "standard" version of a widely used language.
- 16. The system must be easily portable to a variety of computer environments
- 17. The system must be easy to maintain

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External Interface Requirements

File Airports Routes	
Starting Airport	
Filters Cost Time Alrline Airport Get Dat Info	Flight Info Here

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