

BLACK BOX TEST PLAN

For testing purposes, we will assume the user knows how to start the program and find the files needed to continue running the program.

We will be referencing the following files:

input/airline_file.txt

DESCRIPTION,IATA_CODE,CALLSIGN,COUNTRY
United Airlines,UA,UNITED,United States
Delta Air Lines,DL,DELTA,United States
JetBlue Airways,B6,JETBLUE,United States
Caitlyn Air Ways,CA,CAITLYN,United States
Sky Courtney,SC,COURTNEY,United States

input/flight_file.txt

YEAR,MONTH,DAY,DAY_OF_WEEK,AIRLINE,FLIGHT_NUMBER,ORIGIN_AIRPORT,DESTINATION_AIRPORT,SCHEDULED_DEPARTURE,DEPARTURE_TIME,DISTANCE,SCHEDULED_ARRIVAL,ARRIVAL_DELAY
2015,12,20,7,UA,346,ORD,MIA,0730,0730,1197,1139,-20
2015,7,26,7,DL,1233,ATL,ORF,1030,1026,516,1209,-20
2015,1,27,2,B6,1316,FLL,JAX,1855,1854,319,2013,2
2017,2,31,1,CA,234,RDU,FLA,1855,1854,200,456,4
2017,5,27,2,SC,2115,FLA,RDU,1854,1855,215,-6
2017,5,27,2,SC,2115,FLA,ORL,1854,1855,220,-6

input/customer_file.txt

FIRST,LAST,DATE,FLIGHT,ORIGIN,DESTINATION
Erick,Mcfarland,12/20/2015,UA346,ORD,MIA
Kassandra,Stiltner,12/20/2015,UA346,ORD,MIA
Kassandra,Stiltner,12/20/2015,UA346,ORD,MIA
Erick,Mcfarland,7/26/2015,DL1233,ATL,ORF
Caitlyn,Wiley,date,CA234,RDU,FLA
Kassandra,Stiltner,12/20/2015,UA346,ORD,MIA
Kassandra,Stiltner,12/20/2015,UA346,ORD,MIA
Courtney,Gilligan,date,SC2115,FLA,RDU
Erick,Mcfarland,1/27/2015,B61316,FLL,JAX
Kassandra,Stiltner,12/20/2015,UA346,ORD,MIA
Erick,Mcfarland,12/20/2015,UA346,ORD,MIA
Erick,Mcfarland,12/20/2015,UA346,ORD,MIA
Erick,Zynn,12/20/2015,SC2115,FLA,ORL

Test ID	Description	Expected Results	Actual Results
testValidFile (ECP)	<p>Preconditions: The user can start the software and knows how to locate the required input files.</p> <ol style="list-style-type: none"> 1. Enter "input/airline_file.txt" when prompted for an airline file 2. Enter "input/flight_file.txt" when prompted for a flight file 3. Enter "input/customer_file.txt" when prompted for a cardholder file 	<p>Software loads appropriate file information and prints the following to the console:</p> <p>"Would you like to query a customer (Q), print a mileage report (R), or exit the program (E)? "</p>	<p>The program loads all files and prompts the user as follows:</p> <p>"Would you like to query a customer (Q), print a mileage report (R), or exit the program (E)? "</p>
testInvalidFile (DT)	<p>Preconditions: The user can start the software and knows how to locate the required input files.</p> <ol style="list-style-type: none"> 1. Enter "junk.jpg" when prompted for an airline file 	<p>The software reprompts the user to specify a new file.</p>	<p>The program reprompts the user for a file as follows:</p> <p>"Invalid airline filename. Please try again. Enter the airline filename: "</p>
testZeroMiles (BVA)	<p>Precondition: testValidFile has passed</p> <p>Enter "Q" when prompted to make a choice from the menu.</p> <p>Enter the first name "Tryton" and last name "Wiley"</p>	<p>System indicates that the user has earned no miles then prompts user to choose again from the menu.</p>	<p>"Tryton Wiley earned no miles.</p> <p>Would you like to query a customer (Q), print a mileage report (R), or exit the program (E)? " is printed to the console</p>
testValidCard holder (ECP)	<p>Precondition: testValidFile has passed</p> <p>Enter "Q" when prompted to make a choice from the menu.</p> <p>Enter the first name "Erick" and last name "Mcfarland"</p>	<p>The program outputs the following mileage information then prompts for another choice from the menu:</p> <p>Erick Mcfarland earned</p>	<p>The following is printed to the console:</p> <p>Erick Mcfarland earned 3591 miles with United Airlines (UA) 516 miles with Delta Air Lines (DL)</p>

		3591 miles with United Airlines (UA) 516 miles with Delta Air Lines (DL) 319 miles with JetBlue Airways (B6) Would you like to query a customer (Q), print a mileage report (R), or exit the program (E)?	319 miles with JetBlue Airways (B6) Would you like to query a customer (Q), print a mileage report (R), or exit the program (E)?
testOrderOfReport (ECP)	Precondition: testValidFile has passed User chooses to produce a mileage report for all cardholders.	The program outputs the following mileage information: Courtney Gilligan earned 215 miles with Sky Courtney (SC) Erick Mcfarland earned 3591 miles with United Airlines (UA) 516 miles with Delta Air Lines (DL) 319 miles with JetBlue Airways (B6) Kassandra Stiltner earned 5985 miles with United Airlines (UA) Caitlyn Wiley earned 200 miles with Caitlyn Air Ways (CA) Erick Zynn earned 220 miles with Sky Courtney (SC) Would you like to query a customer (Q), print a mileage report	Program prints to the console: Courtney Gilligan earned 215 miles with Sky Courtney (SC) Erick Mcfarland earned 3591 miles with United Airlines (UA) 516 miles with Delta Air Lines (DL) 319 miles with JetBlue Airways (B6) Kassandra Stiltner earned 5985 miles with United Airlines (UA) Caitlyn Wiley earned 200 miles with Caitlyn Air Ways (CA) Erick Zynn earned 220 miles with Sky Courtney (SC) Would you like to query a customer (Q), print a mileage report (R), or exit the program (E)?

		(R), or exit the program (E)?	
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