BLACK BOX TEST PLAN

We have three input text files called airline_info.txt, flight_info.txt, and customer_info.txt. The content of the text files is below.

airline_info.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

flight_info.txt

YEAR,MONTH,DAY,DAY_OF_WEEK,AIRLINE,FLIGHT_NUMBER,ORIGIN_AIRPORT,DESTINATION_AIRPORT,SCHE
DULED_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

customer_info.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
Kassandra,Stiltner,12/20/2015,UA346,ORD,MIA
Kassandra,Stiltner,12/20/2015,UA346,ORD,MIA
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

To start the program, run AirlineMileageManagerUI.java.

Test ID	Description	Expected Results	Actual Results
testInvalidFile (DT-trying to add an invalid file)	**Preconditions:** • The file nonexistent_file.txt does not exist **Steps:** 1. Specify the file nonexistent_file.txt for all input files.	The software reprompts the user to specify a new file.	Prints stack trace
testCustomerMiles (ECP-finding data for name in file)	**Preconditions:** • The files airline_info.txt, flight_info.txt, and customer_info.txt exist and load	It displays: Erick Mcfarland earned 3591 miles with United Airlines (UA) 516 miles	It displays: Erick Mcfarland earned 3591 miles with United Airlines (UA) 516 miles

	successfully. **Steps:** 1. Specify the files airline_info.txt, flight_info.txt, and customer_info.txt when prompted. 2. Choose to getMiles 3. Enter the name Erick Mcfarland.	with Delta Air Lines (DL) 319 miles with JetBlue Airways (B6)	with Delta Air Lines (DL) 319 miles with JetBlue Airways (B6)
testCustomerNoMiles (BVA-search name not in files)	**Preconditions:** • The files airline_info.txt, flight_info.txt, and customer_info.txt exist and load successfully. **Steps:** 1. Specify the files airline_info.txt, flight_info.txt, and customer_info.txt when prompted. 2. Choose getMiles 3. Enter the name Kristy Reed.	The system indicates that this user has earned no miles.	The system indicates that this user has earned no miles.
testProduceMileageReport (ECP-producing the mileage report)	**Preconditions:** • The files airline_info.txt, flight_info.txt, and cardholder_info.txt exist and load successfully. **Steps:** 1. Specify the files airline_info.txt, flight_info.txt, and customer_info.txt when prompted. 2. Choose to getMileageReport	It displays: 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)	It displays: 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)
testQuitAirlineMileageCalculator (ECP-test quitting the system)	**Preconditions:** • The files airline_info.txt, flight_info.txt, and	The software closes, and the input files remain unedited.	The software closes, and the input files remain unedited.

	customer_info.txt exist and load successfully. **Steps:** 1. Specify the files airline_info.txt, flight_info.txt, and customer_info.txt when prompted. 2. Select the option to quit the software.		