# Black Box Test Plan

We have three input text files called airline\_info.txt, flight\_info.txt, and cardholder\_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

flight\_info.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 20

cardholder\_info.txt

FIRST,LAST,DATE,FLIGHT,ORIGIN,DESTINATION James,Smith,12/20/2015,UA346,ORD,MIA

Jane,Smith,12/20/2015,UA346,ORD,MIA

James,Smith,7/26/2015,DL1233,ATL,ORF

To start the program, run MileageManagerUI.java.

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Description | Expected Results | Actual Results |
| testInvalidFile  (DT-trying to add an invalid file) | **Preconditions:**   * MileageManagerUI.java has loaded successfully * The file nonexistent\_file.txt does not exist   **Steps:**   1. Specify the file nonexistent\_file.txt for the airline information input file. | The software prompts the user to enter three files: airline information, flight information, and cardholder information. The software reprompts the user to specify a new file. | The software prompts the user to enter three files: airline information, flight information, and cardholder information. The software reprompts the user to specify a new file. |
| testCardholderQuery  (ECP-finding data for name in file) | **Preconditions:**   * MileageManagerUI.java has loaded successfully * 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 cardholder\_info.txt when prompted. 2. Choose to query cardholders to view detailed mileage information. 3. Enter the name James Smith. | It displays:  James Smith earned:  1197 miles with United Airlines (UA)  516 miles with Delta Airlines (DL) | It displays:  James Smith earned:  1197 miles with United Airlines (UA)  516 miles with Delta Airlines (DL) |
| testCardholerNoMiles  (BVA-search name not in files) | **Preconditions:**   * MileageManagerUI.java has loaded successfully * 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 cardholder\_info.txt when prompted. 2. Choose to query cardholders to view detailed mileage information. 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:**   * MileageManagerUI.java has loaded successfully * 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 cardholder\_info.txt when prompted. 2. Choose to produce a mileage report for all cardholders. | It displays:  James Smith earned:  1197 miles with United Airlines (UA)  516 miles with Delta Airlines (DL)  Jane Smith earned: 1197 miles with United Airlines (UA) | It displays:  James Smith earned:  1197 miles with United Airlines (UA)  516 miles with Delta Airlines (DL)  Jane Smith earned: 1197 miles with United Airlines (UA) |
| testQuitAirlineMileageCalculator  (ECP-test quitting the system) | **Preconditions:**   * MileageManagerUI.java has loaded successfully * 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 cardholder\_info.txt when prompted. 2. Select the option to quit the software. | The software closes, and the input files remain unedited. | The software closes, and the input files remain unedited. |