# Black Box Test Plan

In this section, you must provide your black-box test plan with at least 5 black-box test cases.

* You describe how to setup the system to begin black-box testing
* Test IDs are uniquely identified and descriptive
* Test descriptions are fully specified with complete inputs, specific values, and preconditions
  + Be sure to provide SPECIFIC INPUTs and VALUEs so that your test cases are repeatable
* Expected results are fully specified with specific output values
* The test process is fully provided and clear. No modifications are needed.
* All tests cover scenarios based on the problem statement
* All tests cover unique scenarios for the system
* All strategies for black-box testing are demonstrated in the tests (ECP, BVA, DT)

For this Black Box Test Plan we used the test files: airline.txt, flights.txt, cardh.txt

airline.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

flights.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

cardh.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

Walker,Booth,,,,

**Note: These black box test cases are to be run on the command line rather than a graphical user interface.**

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| --- | --- | --- | --- |
| Test ID | Description | Expected Results | Actual Results |
| Test 1: testInvalidFileName | **Preconditions:** The airline mileage manager program has launched successfully.  **Steps:**   1. When prompted to enter airline data file, type “*airlinesss.txt”* 2. Check Results. | An error message is produced, which states: “The file ‘airlinesss.txt’ does not exist. Please try again. “ | An error message is produced, which states: “One of your input files does not exist. Please try again.” |
| Test 2: testInvalidCardHolderReport | **Preconditions:** The program has opened successfully and airline.txt, flights.txt, and cardh.txt have been loaded successfully.  **Steps:**   1. Type the command generateCardHolderReport John Smith 2. Check Results. | An error message reading “The specified cardholder “John Smith” does not exist” is produced. | The output is: “John Smith earned  no miles.” |
| Test 3: testValidCardHolderReport | **Preconditions:** The program has opened successfully and airline.txt, flights.txt, and cardh.txt have been loaded successfully.  **Steps:**   1. Type the command generateCardHolderReport Kassandra Stiltner 2. Check Results. | Command Line Output should look like:  Kassandra Stiltner earned:  3591 miles with United Airlines (UA) | Output is:  Kassandra Stiltner earned:  5985 miles with United Airlines (UA) |
| Test 4: testInvalidInputReport | **Preconditions:** The program has opened successfully and airline.txt, flights.txt, and cardh.txt have been loaded successfully.  **Steps:**   1. Type the command generateCardHolderReport ####898109 99 2. Check Results | An error message reading “Illegal Characters Detected, please do not use numbers or symbols” is produced. | An error message reading “Illegal Characters Detected, please do not use numbers or symbols” is produced. |
| Test 5: testMileageReport | **Preconditions:** The program has opened successfully and airline.txt, flights.txt, and cardh.txt have been loaded successfully.  **Steps:**   1. Type the command generateMileageReport 2. Check Results | The lines reading  Erick McFarland earned:    1197 miles with United Airlines (UA)  516 miles with Delta Airlines (DL)    Kassandra Stiltner earned:  3591 miles with United Airlines (UA) | Erick McFarland earned:    3591 miles with United Airlines (UA)  516 miles with Delta Airlines (DL)  319 miles with JetBlue Airways (B6)  Kassandra Stiltner earned:  5985 miles with United Airlines (UA) |