Black Box Test Plan

smallDictionary.txt contains the following:  
cook

delicious

turtle

the

inputTest.txt contains the following:  
cooker

deliciously

turtleburgle

the

To start the program, run SpellCheckerUI.java.

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| --- | --- | --- | --- |
| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| **Test 1 - Load Invalid Dictionary File (DT)** | Preconditions:  spellCheckUI is running and invalid.txt does not exist   1. When prompted for a file, enter “invalid.txt” 2. Submit | The program prints “Invalid dictionary file, please enter a valid filepath.” and prompts the user for another. | Success.  Correct error message and reprompt. |
| **Test 2 - Load Valid Dictionary  File (ECP)** | Preconditions:  spellCheckUI is running and smallDictionary.txt exists   1. When prompted for a file, enter “input/smallDictionary.txt” 2. Submit | The program prompts the user for an input file. | Success.  Program prompts for input file. |
| **Test 3 - Load Invalid Input File (DT)** | Preconditions: Test 2 has passed and invalid.txt does not exist   1. When prompted for a file, enter “invalid.txt” 2. Submit | The program prints “Invalid input file, please enter a valid filepath.” and prompts the user for another. | Success.  Correct error message and reprompt. |
| **Test 4 - Load Empty Input File (BVA)** | Preconditions: Test 2 has passed and empty.txt exists, but contains no information   1. When prompted for a file, enter “input/empty.txt” 2. Submit | The program prints the following, and the prompts the user for another input file.  ArrayBasedList[]  SpellCheck Report:  Number of words in dictionary: 10  Number of words to spellcheck: 0  Number of words misspelled: 0  Total number of probes: 0  Total number of lookups: 0  Average number of probes per word check: 0  Average number of probes per lookup: 0 | Success.  Correct data is printed, and program prompts for another file. |
| **Test 5 - Load Other Input File (ECP)** | Preconditions: Test 2 has passed and input.txt exists, with the information described above   1. When prompted for a file, enter “input/input.txt” 2. Submit | The program prints the following, and the prompts the user for another input file.  ArrayBasedList[and, are, However, most, of, those]  SpellCheck Report:  Number of words in dictionary: 10  Number of words to spellcheck: 39  Number of words misspelled: 6  Total number of probes: 140  Total number of lookups: 140  Average number of probes per word check: 0.0  Average number of probes per lookup: 1.0 | Success.  Correct data is printed, and program prompts for another file |