**<<author name redacted>>**

**2/12/20**

**TEST PLAN**

**Purpose:**

The following is a test plan based on use cases for the program Table Sorter. The program takes a file as an input and builds a table that gets sorted. The user can check whether the table is sorted after the process is finished. The aim is to identify and errors in the program based on the use cases presented.

|  |  |  |
| --- | --- | --- |
| **TEST SUITE <Table Creation>** | | |
| **Description of Test Suite** | Provide the ability to create a new table from a file. | |
| **Test Case Identifier** | **Objective** | **Criticality** |
| CT\_V | Create a table and sorted given valid data. | High |
| CT\_I | Reject attempt to create a table and sorted with invalid data. | High |

|  |  |  |
| --- | --- | --- |
| **TEST SUITE <Sort Check>** | | |
| **Description of Test Suite** | Check whether the created table is sorted or not. | |
| **Test Case Identifier** | **Objective** | **Criticality** |
| ST\_V | Check table for correct sorting | High |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test No.: CT\_V | | Current Status: Pending | | |
| Test title:  Table Creation and Sorting | | | | |
| Testing approach:  This test will be conducted in the normal operation environment and a valid file path is provided in a valid format with 16 numbers. | | | | |
| STEP    1 | OPERATOR ACTION    Start the Table Sorter program. | PURPOSE    Initial condition to begin creating a table | EXEPCTED RESULTS    The system will prompt for a file path to which to create the table from | COMMENTS |
| 2 | Input “myValidTable.txt”  and hit the “Enter” key. | Attempting to create a table and sort it. | The system shall display the unsorted table. Followed by a sorted table. |  |  |
| Concluding Remarks:    The test should pass and a sorted table should be displayed to the user | | | | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test No.: CT\_I | | Current Status: Pending | | |
| Test title:  Table Creation and Sorting with Invalid Data | | | | |
| Testing approach:  This test will be conducted in the normal operation environment and a valid file path is provided in a valid format with 15 numbers. | | | | |
| STEP    1 | OPERATOR ACTION    Start the Table Sorter program. | PURPOSE    Initial condition to begin creating a table | EXEPCTED RESULTS    The system will prompt for a file path to which to create the table from | COMMENTS |
| 2 | Input “myInvalidTable.txt”  and hit the “Enter” key. | Attempting to create a table and sort it. | The system shall display an error “The table must be square” and prompt for a file path again. |  |
| Concluding Remarks:    The test should pass if the system correctly displays the error message and allows the user to rectify. | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test No.: ST\_V | | Current Status: Pending | | |
| Test title:  Check sorting function with valid table. | | | | |
| Testing approach:  This test will be conducted in the normal operation environment and a valid file path is provided in a valid format with 16 numbers. The values in the file are already sorted. | | | | |
| STEP    1 | OPERATOR ACTION    Start the Table Sorter program. | PURPOSE    Initial condition to begin creating a table | EXEPCTED RESULTS    The system will prompt for a file path to which to create the table from | COMMENTS |
| 2 | Input “mySortedTable.txt”  and hit the “Enter” key. | Attempting to create a table and sort it. | The system shall display the unsorted table. Followed by a sorted table.  The system prompt user if they want to check is table is sorted. | Table is assumed to be sorted correctly but we need to verify. |
| 3 | Input “yes” to the system prompt | The system shall check if the table is indeed sorted correctly. | The system shall display “TRUE” | True means that table is sorted properly. |
| Concluding Remarks:    The test shall fail if the test returns “FALSE” when checking for sort. | | | | |