System Test Plan

Instructions. In this section, you must provide your system test plan with at least 5 test cases. If you want to provide more than 5 test cases, add an appendix at the end of this document with the 6th, 7th, etc. test cases so that page numbers for all sections match the required template!

Make sure:

- You provide your sample test data
- Test IDs are uniquely identified and descriptive
- Test descriptions are fully specified with complete inputs, specific values, and preconditions
 - o Be sure to provide <u>SPECIFIC</u> INPUTs and VALUEs so that your test cases are repeatable
- Expected results are fully specified with specific output values
- All tests cover scenarios based on the problem statement
- All tests cover unique scenarios for the system
- All strategies for system testing are demonstrated in the tests (testing equivalence classes, testing boundary values, testing exceptions/unexpected inputs)

Test Data:

For our system test cases, we will use the following test files:

input1-1.txt:

```
A flea and a fly in a flue
Were imprisoned so what could they do
Said the fly let us flee
Let us fly said the flea
So they flew through a flaw in the flue
Ogden Nash
```

input1-2.txt:

```
A flea and a fly in 4 flue
Were imprisoned so what could they do
Said the 5 let us flee
Let 18 5 said 16 2
```

So 13 flew through 4 flaw 6 16 7 Ogden Nash

input2.txt:
Foo

empty.txt (empty):

Test ID	Description	Expected Results	Actual Results
Test #1 testID: testCompressFile Strategy: (Equivalence class - compressing a file)	Preconditions: CompressionUl has loaded successfully The file input1-1.txt exists Steps: 1. Enter "input/input1-1.txt" 2. Enter "compress"	The compressed file contents display in the program as: Compressed Output { Line 1:A flea and a fly in 4 flue Line 2:Were imprisoned so what could they do Line 3:Said the 5 let us flee Line 4:Let 18 5 said 16 2 Line 5:So 13 flew through 4 flaw 6 16 7 Line 6:Ogden Nash }	Displayed contents: Compressed Output { Line 1:A flea and a fly in 4 flue Line 2:Were imprisoned so what could they do Line 3:Said the 5 let us flee Line 4:Let 18 5 said 16 2 Line 5:So 13 flew through 4 flaw 6 16 7 Line 6:Ogden Nash }

The decompressed file contents display in the Displayed Test #2 Preconditions: contents: program as: testID: CompressionUI has loaded successfully Decompressed Output { Decompressed The file input1-2.txt exists Line 1:A flea and a fly in a Output { testDecompressF Line 1:A flue ile Steps: Line 2:Were imprisoned so what flea and a fly in a flue could they do Strategy: 1. Enter "input/input1-2.txt" Line 3:Said the fly let us flee Line 2. Enter "decompress" Line 4:Let us fly said the flea 2:Were (Equivalence Line 5:So they flew through a imprisoned so class flaw in the flue what could decompressing a they do Line 6:Ogden Nash file) Line 3:Said the fly let us flee Line 4:Let us fly said the flea Line 5:So they flew through a flaw in the flue Line 6:Ogden Nash

Test #3	Preconditions:	The compressed file contents display in the program as:	Displayed contents:
testID: testCompressOne WordFile Strategy: (Boundary value - input single word file, file is valid but no compression is done)	 CompressionUI has loaded successfully The file input2.txt exists Steps: 1. Enter "input/input2.txt" 2. Enter "compress" 	<pre>program as: Compressed Output { Line 1:Foo }</pre>	<pre>contents: Compressed Output { Line 1:Foo }</pre>

Test #4 testID: testInvalidFileCo mpression	Preconditions:	The program displays: "The provided input file has no text to compress."	Displayed message: "The provided input file has no text to compress."
Strategy: (Exception/unexp ected input - try compressing empty file)	1. Enter "input/empty.txt" 2. Enter "compress"		

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Test #5 testID: testInvalidFileDec ompression Strategy: (Exception/unexp ected input - try decompressing empty file)	Preconditions: 1. CompressionUI has loaded successfully 2. The file empty.txt exists Steps: 3. Enter "input/empty.txt" 4. Enter "decompress"	The program displays: "The provided input file has no text to decompress."	Displayed message: "The provided input file has no text to decompress."