

October 14, 2014

Test by inputting different word searches:

**Test case 1 (testing specific command):**

<terminate>      #should terminate program

**Test case 2 (testing debug command):**

<catalog>      #should output the dictionary with books as keys and values as number followed by URL

**Test case 3 (testing debug command):**

<titles>      #should output list of book titles

**Test case 4 (testing numerical input):**

24      #Should output “not found in any books.” for all tested

0

1

**Test case 5 (testing special characters input):**

.      #Should output “not found in any books.” for all tested

#

,

“” (press Enter)

**Test case 6 (testing word searches):**

Elizabeth      #should output 594 words in Pride and Prejudice.

elizabeth      #testing upper/lowercase. Should output 594 words in Pride and Prejudice only.

grouche      #should output “not found in any books”

the      #should output some value for all books

gutenberg      #should output approximately same value for all books

httpwwwgutenbergnet #hand-test the following:

4 . The word httpwwwgutenbergnet appears 2 time(s) in The Adventures of Huckleberry Finn (link: <http://people.ischool.berkeley.edu/~tygar/for.i206/pg76.txt> )

5 . The word httpwwwgutenbergnet appears 1 time(s) in Beowulf (link: <http://people.ischool.berkeley.edu/~tygar/for.i206/pg16328.txt> )

6 . The word httpwwwgutenbergnet appears 1 time(s) in The Adventures of Sherlock Holmes (link: <http://people.ischool.berkeley.edu/~tygar/for.i206/pg1661.txt> )

8 . The word httpwwwgutenbergnet appears 2 time(s) in Metamorphosis (link: <http://people.ischool.berkeley.edu/~tygar/for.i206/pg5200.txt> )

10 . The word httpwwwgutenbergnet appears 2 time(s) in The Adventures of Tom Sawyer (link: <http://people.ischool.berkeley.edu/~tygar/for.i206/pg74.txt> )

Test with different file formats:

**Test case 1 (test different file type):**

catalog.xlsx (excel file)      # results in TypeError. Should print 'Wrong file type. Must be .txt file.'

**Test case 2 (testing different file contents):**

testing.txt (text file with string 'qwerty') #should output 'not found in any books' for all words searched.

**Test case 3 (testing different links):**

testing1.txt (text file with book title and broken links)      #results in IOError [Errno 8]. Should print 'Broken URL(s).'

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testing2.txt (text file with book title and different links like google.com, facebook.com, etc) #should output 'not found in any books' for all words searched.

### **What are the boundary cases?**

One boundary case would be non-alphabetic characters such as special characters and punctuation, since those were supposed to have been removed. Another boundary case would be different input types such as a space or just pressing enter. Another boundary case would be words that may have had punctuation within them such as www.gutenberg.org. Finally, a boundary case would be different file types or file contents.

### **What happens if catalog.txt comes in an unexpected format?**

If the catalog.txt comes in a .xlsx format, it cannot read the URL and results in "TypeError: must be encoded string without NULL bytes, not str." I created a "try" and "except" clause that will print 'Wrong file type. Must be .txt file.' if this is the case.

If the contents of the file are just a string with no URL, then there is no way to open and read a file from a URL. Thus, the program will never find a word in the book, and will keep print that the word does not appear in any book for every word searched.

### **What happens if a link is broken or the contents come in an unexpected format? etc.**

If the link is broken, it results in IOError: [Errno socket error] [Errno 8] nodename nor servname provided, or not known. I created a "try" and "except" clause that will print Broken URL.' if this is the case.

If the links are not broken, but it refers to a different website such as google.com or youtube.com, it will just print that the word does not appear in any book. The program will print that for every word searched.