

Eric Chan

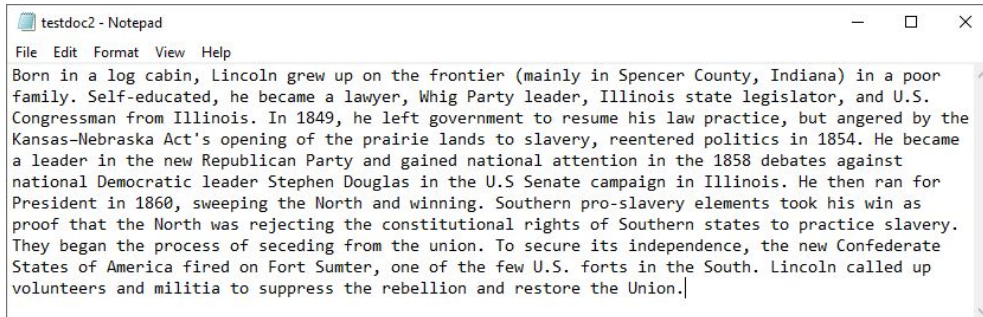
Plagiarism Checker

Testing and Validation

Unit Testing

1. Testing the javascript function “chooseFile” with its expected input of a .txt file:

Input:



Output:

Plagiarism Checker

Choose a file to check for plagiarism.

Choose File testdoc2.txt

Enter text to check for plagiarism.

Born in a log cabin, Lincoln grew up on the frontier (mainly in Spencer County, Indiana) in a poor family. Self-educated, he became a lawyer, Whig Party leader, Illinois state legislator, and U.S. Congressman from Illinois. In 1849, he left government to resume his law practice, but angered by the Kansas-Nebraska Act's opening of the prairie lands to slavery, reentered politics in 1854. He became a leader in the new Republican Party and gained national attention in the 1858 debates against national Democratic leader Stephen Douglas in the U.S Senate campaign in Illinois. He then ran for President in 1860, sweeping the North and winning. Southern pro-slavery elements took his win as proof that the North was rejecting the constitutional rights of Southern states to practice slavery. They began the process of seceding from the union. To secure its independence, the new Confederate States of America fired on Fort Sumter, one of the few U.S. forts in the South. Lincoln called up volunteers and militia to suppress the rebellion and restore the Union.

Check

There will be no unexpected or invalid input as the input is enforced by the application to only accept .txt files.

2. Testing the PHP function “removeStopWords” with its expected input:

Output:

Born log cabin, Lincoln grew frontier (mainly Spencer County, Indiana) poor family. Self-educated, became lawyer, Whig Party leader, Illinois state legislator, U.S. Congressman Illinois. In 1849, left government resume law practice, angered Kansas–Nebraska Act's opening prairie lands slavery, reentered politics 1854. He became leader new Republican Party gained national attention 1858 debates against national Democratic leader Stephen Douglas U.S Senate campaign Illinois. He then ran President 1860, sweeping North winning. Southern pro-slavery elements took win proof North was rejecting constitutional rights Southern states practice slavery. They began process seceding union. To secure its independence, new Confederate States America fired Fort Sumter, few U.S. forts South. Lincoln called volunteers militia suppress rebellion restore Union.

3. Testing the procedure to split the copy of input text that is removed of any stop words to queries of up to 32 words per query:

Output:

[Check More Text](#)

Number of words to query: 113

Expected number of queries: 4

Query 1: Born log cabin, Lincoln grew frontier (mainly Spencer County, Indiana) poor family. Self-educated, became lawyer, Whig Party leader, Illinois state legislator, U.S. Congressman Illinois. In 1849, left government resume law practice, angered

Query 2: Kansas–Nebraska Act's opening prairie lands slavery, reentered politics 1854. He became leader new Republican Party gained national attention 1858 debates against national Democratic leader Stephen Douglas U.S Senate campaign Illinois. He then

Query 3: ran President 1860, sweeping North winning. Southern pro-slavery elements took win proof North was rejecting constitutional rights Southern states practice slavery. They began process seceding union. To secure its independence, new Confederate

Query 4: States America fired Fort Sumter, few U.S. forts South. Lincoln called volunteers militia suppress rebellion restore Union.

4. Testing the PHP function “callGoogleAPI” on its expected input of the queries in the queries’ array to create an array of website URLs:

Output:

[Check More Text](#)

Website URL 1: https://en.wikipedia.org/wiki/Abraham_Lincoln

Website URL 2: <https://www.pieterzandvliet.com/product/abraham-lincoln/>

Website URL 3: <https://ha-insta.com/hashtag/abe>

Website URL 4: <https://deskgram.co/explore/tags/honestabe>

Website URL 5: <https://michaelruark.blog/2019/12/01/abraham-lincoln/>

Website URL 6: <http://www.loc.gov/teachers/classroommaterials/connections/abraham-lincoln-papers/file.html>

Website URL 7: <https://www.rose-hulman.edu/class/cs/csse413/assignments/nlp/lincoln.txt>

Website URL 8: <https://www.knox.edu/documents/LincolnStudies/BurlingameVol1Chap10.pdf>

Website URL 9: https://web2.0calc.com/questions/help-please_87602

Website URL 10: https://en.wikipedia.org/wiki/Origins_of_the_American_Civil_War

Website URL 11: <https://www.amazon.in/SPEECHES-LETTERS-ABRAHAM-LINCOLN-ebook/dp/B07TVQ3SLD>

Website URL 12: <http://www.loc.gov/teachers/classroommaterials/connections/slavery/file.html>

Website URL 13: https://www.senate.gov/artandhistory/history/common/civil_war/LincolnEmergencySession_FeaturedDoc.htm

Website URL 14: https://en.wikipedia.org/wiki/Virginia_in_the_American_Civil_War

Website URL 15: <https://history.army.mil/books/AMH-V1/ch09.htm>

5. Testing the PHP function “compareText” on its expected input of each website in the array of URLs to populate the array of text matches and to populate the array of how many matches.

Output:

https://en.wikipedia.org/wiki/Abraham_Lincoln

Total number of matches: 173

String match number 1: Born in a log cabin, Lincoln grew up on the frontier (mainly in Spencer County, Indiana) in a poor family. Self-educated, he became a lawyer, Whig Party leader, Illinois state legislator, and U.S. Congressman from Illinois. In 1849, he left government to resume his law practice, but angered by the Kansas-Nebraska Act's opening of the prairie lands to slavery, reentered politics in 1854. He became a leader in the new Republican Party and gained national attention in the 1858 debates against national Democratic leader Stephen Douglas in the U.S Senate campaign in Illinois. He then ran for President in 1860, sweeping the North and winning. Southern pro-slavery elements took his win as proof that the North was rejecting the constitutional rights of Southern states to practice slavery. They began the process of seceding from the union. To secure its independence, the new Confederate States of America fired on Fort Sumter, one of the few U.S. forts in the South. Lincoln called up volunteers and militia to suppress the rebellion and restore the Union.

<https://www.pieterzandvliet.com/product/abraham-lincoln/>

Total number of matches: 113

String match number 1: in a log cabin, Lincoln grew up on
String match number 2: County, Indiana) in a poor family. Self-educated, he became a
String match number 3: Congressman from Illinois. In 1849, he left government to resume his law practice, but angered by
String match number 4: opening of the prairie lands to slavery, reentered politics in 1854. He became a leader in the
String match number 5: Senate campaign in Illinois. He then ran for President in 1860, sweeping
String match number 6: winning. Southern pro-slavery elements took his win as proof that the North was rejecting
String match number 7: states to practice slavery. They began the process
String match number 8: union. To secure its independence, the
String match number 9: Sumter, one of the few U.S. forts in the South.
Lincoln called up volunteers and militia to suppress the rebellion and restore

<https://ha-insta.com/hashtag/abe>

Total number of matches: 0

6. Testing the PHP function “output” which will display to the screen all website URLs the application deemed to have contained a match, its percent match, and its matching strings.

Output:

https://en.wikipedia.org/wiki/Abraham_Lincoln

Percent Match:

100%.

Matches:

-Born in a log cabin, Lincoln grew up on the frontier (mainly in Spencer County, Indiana) in a poor family. Self-educated, he became a lawyer, Whig Party leader, Illinois state legislator, and U.S. Congressman from Illinois. In 1849, he left government to resume his law practice, but angered by the Kansas-Nebraska Act's opening of the prairie lands to slavery, reentered politics in 1854. He became a leader in the new Republican Party and gained national attention in the 1858 debates against national Democratic leader Stephen Douglas in the U.S Senate campaign in Illinois. He then ran for President in 1860, sweeping the North and winning. Southern pro-slavery elements took his win as proof that the North was rejecting the constitutional rights of Southern states to practice slavery. They began the process of seceding from the union. To secure its independence, the new Confederate States of America fired on Fort Sumter, one of the few U.S. forts in the South. Lincoln called up volunteers and militia to suppress the rebellion and restore the Union.

<https://www.pieterzandvliet.com/product/abraham-lincoln/>

Percent Match:

65%.

Matches:

-in a log cabin, Lincoln grew up on
-County, Indiana) in a poor family. Self-educated, he became a
-Congressman from Illinois. In 1849, he left government to resume his law practice, but angered by
-opening of the prairie lands to slavery, reentered politics in 1854. He became a leader in the
-Senate campaign in Illinois. He then ran for President in 1860, sweeping
-winning. Southern pro-slavery elements took his win as proof that the North was rejecting
-states to practice slavery. They began the process
-union. To secure its independence, the
-Sumter, one of the few U.S. forts in the South. Lincoln called up volunteers and militia to suppress the rebellion and restore

Component Testing

Interactions:

- HTML passing input into PHP script.

Testing interaction between the HTML code which gets the input from the user and the PHP script which processes the input.

- a) Correct functioning of the interaction, PHP script exists and properly located:

Components:

```
<form method="post" action="test.php">
  <textarea rows="40" cols="175" name="text" id="text"></textarea><br>
  <input type="submit" value="Check"><br>
</form>
```

```
1 <?php
2 ini_set('max_execution_time', 300);
3 $text = $_POST["text"];
4 echo $text . "<br><br>";
5 echo "PHP file is found.";
6 ?>
```

Input:

Plagiarism Checker

Choose a file to check for plagiarism.

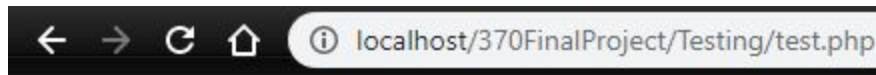
Choose File No file chosen

Enter text to check for plagiarism.

Does the PHP script exist?

Check

Output:



Does the PHP script exist?

PHP file is found.

- b) Error handling of unexpected operating scenario, PHP script does not exist in the proper directory.

Output:

Object not found!

The requested URL was not found on this server. The link on the [referring page](#) seems to be wrong or outdated. Please inform the author of [that page](#) about the error.

If you think this is a server error, please contact the [webmaster](#).

System Testing

Requirement 1:

Plagiarism Checker

Choose a file to check for plagiarism.

No file chosen

Enter text to check for plagiarism.

Requirement 2- 5:

Check More Text

https://en.wikipedia.org/wiki/Abraham_Lincoln

Percent Match:

100%.

Matches:

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Requirement 5

Requirement 2

Requirement 3

Requirement 4

Requirement 6:

Check More Text

https://en.wikipedia.org/wiki/Abraham_Lincoln

Percent Match:

100%.

Matches:

-Born in a log cabin, Lincoln grew up on the frontier (mainly in Spencer County, Indiana) in a poor family. Self-educated, he became a lawyer, Whig Party leader, Illinois state legislator, and U.S. Congressman from Illinois. In 1849, he left government to resume his law practice, but angered by the Kansas-Nebraska Act's opening of the prairie lands to slavery, reentered politics in 1854. He became a leader in the new Republican Party and gained national attention in the 1858 debates against national Democratic leader Stephen Douglas in the U.S Senate campaign in Illinois. He then ran for President in 1860, sweeping the North and winning. Southern pro-slavery elements took his win as proof that the North was rejecting the constitutional rights of Southern states to practice slavery. They began the process of seceding from the union. To secure its independence, the new Confederate States of America fired on Fort Sumter, one of the few U.S. forts in the South. Lincoln called up volunteers and militia to suppress the rebellion and restore the Union.

<https://www.pietzandvliet.com/product/abraham-lincoln/>

Percent Match:

65%.

Matches:

-in a log cabin, Lincoln grew up on
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-winning. Southern pro-slavery elements took his win as proof that the North was rejecting
-states to practice slavery. They began the process
-union. To secure its independence, the
-Sumter, one of the few U.S. forts in the South. Lincoln called up volunteers and militia to suppress the rebellion and restore

<https://michaelruark.blog/2019/12/01/abraham-lincoln/>

Percent Match:

66%.

Matches:

-Born in a log cabin, Lincoln grew up on
-County, Indiana) in a poor family. Self-educated, he became a
-Congressman from Illinois. In 1849, he left government to resume his law practice, but angered by
-opening of the prairie lands to slavery, reentered politics in 1854. He became a leader in the
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