CSCI 572 HW5 Report (Reuters)

Shuming Hao 1547131193

Implement spelling correction:

- 1. Used HtmlParse.java to parse data from Reuters website. Generate big.txt for future use. Used Eclipse as java IDE.
- 2. Downloaded SpellCorrector.php which is an implementation based on Peter Norvig's algorithm in php.
- 3. Included this code in the my index.php for the UI generation

Implement autosuggest:

- 1. Modify solrconfig.xml file to include changes related to suggest and request handler
- 2. Reload myexample core for the changes to get reflected
- 3. Included JQuery in index.php. Suggestions are displayed in a drop-down fashion as soon as the user begins typing and the suggestions get more streamlined as the user gives in more input

Implement snippet generation:

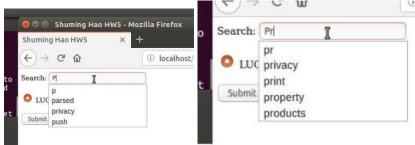
- 1. Included simple_html_dom.php to extract HTML content
- 2. Generated snippets for websites.
- 3. For multiple term queries, try finding a sentence with all the terms together. If not, return the sentence that has all the terms in it, even if they are not together or in same order. If none of the fore-mentioned are found, return the first sentence with at least one query term in it. If no match is found, then no snippet is returned.
- 4. Highlight the query terms in the snippet

Analysis of the results:

Do steps 1 and 2, first for **President** and then for **Mental Health**

1. TESTING AUTOCOMPLETE

- enter the first character, produce some suggestions
- enter the second character, produce some suggestions

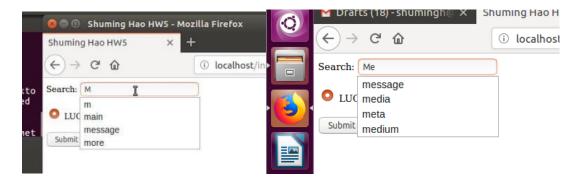


Suggestions prompted: p, parsed, privacy, push

Suggestions prompted: pr, privacy, print, property, products

Suggestions prompted: m, main, message, more

Suggestions prompted: message, media, meta, medium



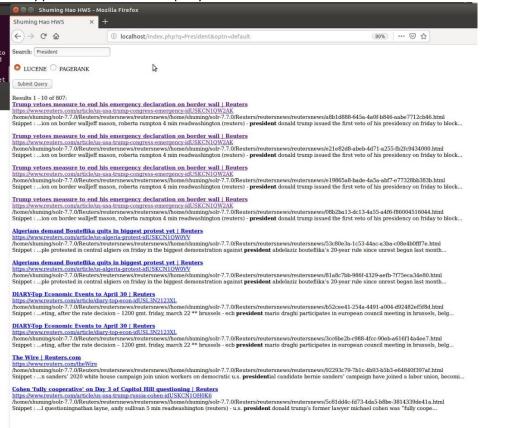
2. TESTING SEARCH RESULTS WITH SNIPPETS Enter the full Query.

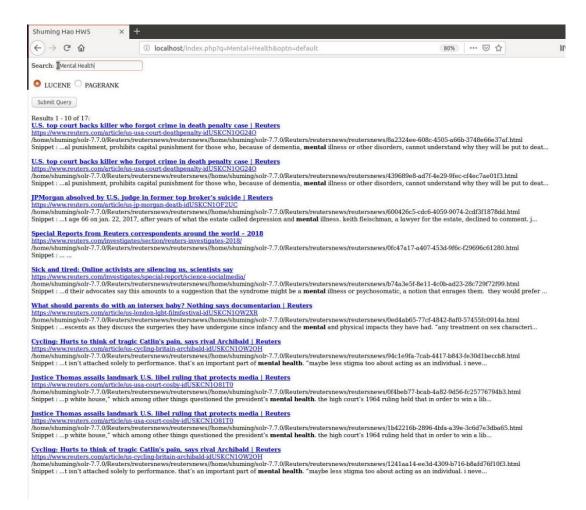
There should be some results

Each result must include a link to the associated web page.

The grader must test the link.

The snippet must contain the query term

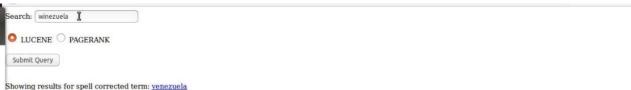




3. TESTING SPELL CORRECTION

Results are in the table. Screenshots are in the next page. I did not show all the results to limit the page or this report. All the links and titles are clickable.

	Reuters
winezuela	venezuela
ceenate	teenage
democratz	democrats
elction	election



Do you want to search instead for the misspelled term: winezuela

Results 1 - 10 of 1709:

How Russia sank billions of dollars into Venezuelan quicksand

https://www.reuters.com/investigates/special-report/venezuela-russia-rosneft/
/home/shuming/solr-7.7.0/Reuters/reutersnews/reutersnews/reutersnews/reutersnews/reutersnews/reutersnews/sol-2c1-3a83ffd9cb84.html Snippet : ... how russia sank billions of dollars into venezuelan quicksand ...

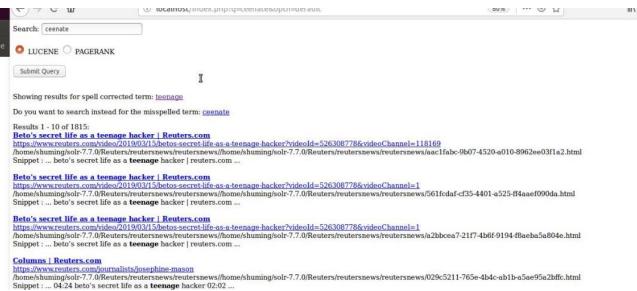
Special Report: How Russia sank billions of dollars into Venezuela quicksand | Reuters

https://www.reuters.com/article/us-venezuela-russia-rosneft-special-repo-idUSKCN1OV1HN
/home/shuming/solr-7.7.0/Reuters/reutersnews/reuter Snippet: ... special report: how russia sank billions of dollars into venezuela quicksand | reuters ...

U.S. considers sanctions to restrict Visa, Mastercard in Venezuela: official | Reuters

https://www.reuters.com/article/us-usa-venezuela-sanctions-idUSKCN1OV2VS /home/shuming/solr-7.7.0/Reuters/reutersnews/reutersnews/reutersnews/reutersnews/reutersnews/reutersnews/e49e96d0-9a07-4890-9c5d-302862160ed0.html Snippet: ... u.s. considers sanctions to restrict visa, mastercard in venezuela: official | reuters ...

U.S. envoy says Venezuela oil production dropping steadily | Reuters https://www.reuters.com/article/us-venezuela-politics-usa-abrams-idUSKCN10W2HM | https://www.reuters.com/article/u





Do you want to search instead for the misspelled term: democratz

Results 1 - 10 of 111:

Democrats support expanding Medicare, with some caveats that could matter to voters | Reuters

https://www.reuters.com/article/us-usa-election-medicare-id/USKBN10U189

home/shuming/solr-7.7.0/Reuters/reutersnew

Democrats support expanding Medicare, with some caveats that could matter to voters | Reuters https://www.reuters.com/article/us-usa-election-medicare-idUSRBN10U189 html://www.reuters.com/article/us-usa-election-medicare-idUSRBN10U189 html://www.reuters.com/article/us-us-election-medicare-idUSRBN10U189 htm

Acting U.S. attorney general snaps at Democrats over Russia probe | Reuters https://www.reuters.com/article/us-usa-congress-whitaker-idUSKCNIPX1LD //home/shuming/solr-7.7.0/Reuters/reutersnews/reute Snippet: ... acting u.s. attorney general snaps at democrats over russia probe | reuters ...

Republicans bash Cohen, Democrats at CPAC | Reuters.com

https://www.reuters.com/video/2019/02/28/republicans-bash-cohen-democrats-at-cpac?videoId=520293110&videoChannel=13976
/home/shuming/solr-7.7.0/Reuters/reutersnews/reutersnews/cd8637fe-4d2f-4bff-b1ee-b497ede9b745.html
Snippet: ... republicans bash cohen, democrats at cpac | reuters.com ...



Showing results for spell corrected term: election

Do you want to search instead for the misspelled term: elction

Results 1 - 10 of 403:

 $\frac{https://www.reuters.com/news/picture/beto-orourke-campaigns-in-iowa-idUSRTX6R98N}{/home/shuming/solr-7.7.0/Reuters/reutersnews/reuters$

Zuma-era officials feature on South Africa's ANC election list | Reuters https://www.reuters.com/article/us-safrica-politics-idUSKCN10W2M4 htms://www.reuters.com/article/us-safrica-politics-idUSKCN10W2M4 htms://www.reuters.com

Trump's top communications aide Shine resigns, moves to re-election campaign | Reuters https://www.reuters.com/article/us-usa-election-trump-shine-idUSKCN10P1YM //home/shuming/solr-7.0/Reuters/reutersnews/reutersnews/home/shuming/solr-7.0/Reuters/reutersnews solr-7.7.0/Reuters/reutersnews/reutersnews/8ba63d40-82e4-43bb-b59b-faa103d21302.html

Anti-corruption campaigner set to win Slovakia's presidential vote | Reuters https://www.reuters.com/article/us-slovakia-election-president-idUSKCN1OW2Z3 https://www.reuters.com/article/us-slovakia-election-president-idUSKCN1OW2Z3 html/slovakia-election-president-idUSKCN1OW2Z3 html/slovakia-election-presid

Anti-corruption campaigner set to win Slovakia's presidential vote | Reuters https://www.reuters.com/article/us-slovakia-election-president-idUSKCN1OWZZ3
//home/shuming/soir-7.7.0/Reuters/reutersnew