

Summary of Steps:

- To complete this assignment, I had already installed and set up Solr in the previous homework assignment.
- For implementing spelling correction, I used Peter Norvig's program. By including Peter Norvig's spelling correction php file in my user interface, i.e., my PHP file, I called the SpellCorrextor.php
- I created the big.txt file and placed it in root directory to be used by other programs.
- For implementing auto complete, I made changes in the "solrconfig.xml" file as mentioned in the tutorial. I used FuzzyLookupLogic and limited the suggestion to five entries.
- After that I made an Ajax call to Solr suggest search handler. Thus, using Ajax and jQuery, I implemented auto complete. I handled the CORS by changing server configuration in Apache.
- For displaying snippets, I used simple DOM parser to parse the html file and extract their meta data to search the keyword that matches the query term. I use 160 characters to display the snippet and null otherwise.

Below are the five examples to show the correct handling of spelling correction program for misspelled words:

1. Query Term: california
 Corrected Term: California
2. Query Term: imgration
 Corrected Term: migration
3. Query Term: elction
 Corrected Term: election

4. Query Term: climte
Corrected Term: climate
5. Query Term: beleive
Corrected Term: believe

Below are the Five of auto completion:

1. Search Term: calif
Suggestions:
calif
California
cliff
California's
californiahome

2. Search Term: miss
Suggestions:
miss
message
mass
midsize
Mississippi

3. Search Term: be

Suggestions:

be

best

before

bestselling

below

4. Search Term: True

Suggestions:

true

try

travel

thumbnails

truth

5. Search Term: climate

Suggestions:

climate

climates

climatology

climax

climaxes