

Homework- 5 Report:

1.Steps followed during the assignment and execution of the program

1. Creation of Big.txt file

- Downloaded mercury news and Java program is used to rail the data from the folder.
- As mentioned in the assignment pdf, apache Tika is used to generate appropriate data necessary for Autosuggestion as well as spelling correction in the program.
- Java code is also used to extract the id's of the files from UrItoHTML_mercury.csv and also provide appropriate snippets for it.

2. Spell Correction Program

- The spell correction program is downloaded from the provided link.
- Error handling is done in spell correction program in order to handle the errors or catch blocks.
- The big.txt files path is given in order to extract the correct spelling .
- When the php code gets executed and retrieves the query, the spell correction program verifies if the spelling is correct or not, else, nearest suggestion is provided from the big.txt file. When the user clicks the suggestion, the page is automatically loaded and corresponding results are displayed

3. Auto Suggestion/Completion

- JQuery function is written to implement auto complete function
- The suggestions are extracted from the solr Url and sent to the index.php function.
- When a word is typed, all the words upto that particular letter is implemented in the query output box.
- All the related words are stored in an array dynamically as JSON types using dataType : 'jsonp' and jsonp : 'json.wrf'

4. Snippets

- The id of each of the 10 values are retrieved, the links of each are traversed and the first line where the word appears is extracted.
- The line is counted for 160 characters including any kind of punctuation.
- The lines are stored in an array and printed for each iteration.

2.Five examples of misspelled words that are correctly handled by the spell correction program.

trmpu - trump

brzail - brazil

corut - court

bronw - brown

Five examples of the words that are handled by auto complete program.

1. Words	Suggestions
1.hom	home
	homes
	horoscopes
	hamburger
tee	technology
	television
	text
	the
phone	phoenix
	phones
	pioneer
	prone
	photographer
blast	bastille
	blasey
	beast
	boasting

fru	francisco
	from
	function
	forums
	fry's