**ASSIGNMENT 4:**

**Steps for implementing autocorrect feature:**

1. Used an external php program (norvig’s spell correct implementation in PHP) to facilitate autocorrect.
2. Created the big.txt file by processing all the data from the saved html pages (using python script) and appended it to already existing big.txt from norvig’s website.
3. When you hit submit, the php code took the input, checked each word of the phrase separately for correct spelling and returns the correctly spelled phrase as a result.
4. As a result, top 10 results were shown for the correct query.

**Steps for implementing autosuggest feature:**

1. Used solr’s fuzzylogic implementation to build this.
2. Edited solrconfig.xml to enhance search feature.
3. The main php calls a JQuery function every time a letter is entered , which in turn makes a call to another ajax\_refresh.php file, that retrieves all the suggestions by constructing solr suggest URL.
4. All results are dynamically changed, and clicking them invokes another JavaScript function which automatically redirects them to the result page for that particular suggestion.

Since the size of big.txt is large (25 MB), the spell correct program is taking a lot of time to create dictionary and find the right word, which is causing significant delay in searching the query.