# Homework5 report (steps & result analysis)

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# **Steps for homework5:**

generate the big.txt using tika:
 write a program in java and generate big.txt( running about 30 minutes)

```
public static void main(String[] args){
     BodyContentHandler handler=new BodyContentHandler(-1);
     AutoDetectParser parser=new AutoDetectParser();
     Metadata metadata=new Metadata();
         String dirpath="C:\\Users\\xuchen\\Desktop\\WebSpider\\tikaparse\\USA";
         File dir=new File(dirpath);
int numberProcessed=0;
         for(File file:dir.listFiles()){
             FileInputStream is=new FileInputStream(file);
parser.parse(is, handler, metadata);
              FileWriter fw=new FileWriter("big.txt");
             BufferedWriter bw=new BufferedWriter(fw);
             bw.write(handler.toString());
             bw.flush():
             bw.close();
             fw.close();
             is.close();
              System.out.println("file "+numberProcessed+" processed");
             numberProcessed++;
     catch(Exception e) {
        e.printStackTrace();
```

After that, I change the solrconfig.xml like the instructions of home and add suggestions to the solr in order to get the suggestions list, here below are the preparations for the homework

- 2. use Peter Norvig's SpellCorrector.php for the first time to generate serialized\_dictionary.txt (running about 15 minutes) you need to set ini\_set('memory\_limit',-1) in order to make it accept the large memory
- 3. write a piece of code of correction:

4. write the code of auto complete: use JQUERY functions for that: add class='ui-widget' to the body and the input part add onkeyup event to the input and write javascript code which calls suggest.php:

5. For the reason I use WAMP SERVER for developing, then I store the URL and id into MYSQL and here below are the codes for creating database and table:

```
mysq1> create database hw5
Query OK, 1 row affected (0.08 sec)
mysq1> use hw5;
Database changed
mysq1> show tables;
Empty set (0.00 sec)
mysql> create table id_url(id varchar(300),url varchar(600));
Query OK, 0 rows affected (0.14 sec)
mysq1> describe id_ur1;
 Field | Type
                          Null | Key | Default | Extra
          varchar(300)
varchar(600)
                          YES
YES
  id
                                        NULL
  ur1
2 rows in set (0.09 sec)
mysq1>
```

6. then I write the code of initializing database and run it on the server to store all the information in excel file into MYSQL:which is used for generating clickable title like google

```
</php
| $conn=mysqli_connect("localhost","root","","hw5");
if(!$conn){
| die("Connection failed:".mysqli_connect_error());
}
echo "connect success!";
$dataset=fopen("USA_Today_Map.csv","r");
while(($line=fgets($dataset))!==false){
| $strgroup=explode(",",$line);
| $id=$strgroup[0];
| $url=$strgroup[1];
| $sql="insert into id_url(id,url) values('".$id."','".$url."')";
| $conn->query($sql);
| }
echo "initialize success";
| $conn->close();
| }
```

7. then I use php preg\_match and domdocument to get the snippet and show it on the page(more details see GetSnippets.php function getsnippet())

# result:

## correction:

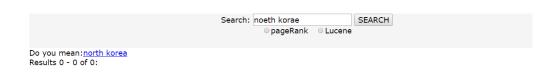
1.ster ----star

```
Search: ster SEARCH

pageRank Lucene

Do you mean:star
Results 0 - 0 of 0:
```

2.noeth korae----north korea



#### 3.War-----war

9	Search: warr SEARCH pageRank Lucene
Do you mean: <u>war</u> Results 1 - 1 of 1:	
1. <u>Healthy as ever, John Wall playing at All</u>	-Star level for surging Wizards

## 4.trup-----trump

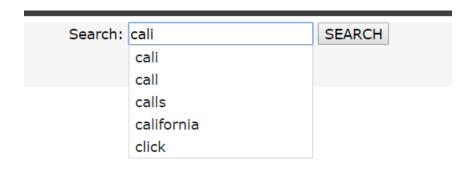
	Search: trup	SEARC
	o pageRa	ank Lucene
Do you mean: trump Results 0 - 0 of 0:		

#### 5.califoenia----california



# **Autocomplete:**

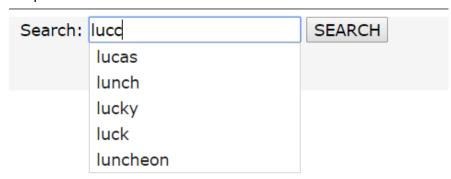
1.input:cali



### 2.input:exte



#### 3.input:lucc



## 4.input:stalli



## 5.input:mu

Search:	mu	SEARCH
	mu	
	music	
	mutedautoplay	
	much	
<u>iss natio</u>	must	