



```

<requestHandler name="/suggesthandler" class="solr.SearchHandler" startup="lazy" >
  <lst name="defaults">
    <str name="suggest">true</str>
    <str name="suggest.count">10</str>
    <str name="suggest.dictionary">mySuggester</str>
  </lst>
  <arr name="components">
    <str>suggest</str>
  </arr>
</requestHandler>

```

## 2. Create Suggest Component

Configure solrconfig.xml as following:

Configured build on startup as false to avoid core taking too long to load. Used fuzzy logic look up

```

<searchComponent name="suggest" class="solr.SuggestComponent">
  <lst name="suggester">
    <str name="name">mySuggester</str>
    <str name="lookupImpl">FuzzyLookupFactory</str>      <!-- org.apache.solr.spelling.suggest.fst -->

    <str name="field">_text_</str>

    <str name="suggestAnalyzerFieldType">textSuggest</str>

    <str name="buildOnStartup">false</str>
    <str name="buildOnCommit">false</str>
  </lst>
</searchComponent>

```

## 3. Create Custom Suggest Type Field.

Perform tokenization, stemming and create phrase query., used en\_splitting

```

<fieldType class="solr.TextField" name="textSuggest" positionIncrementGap="100">
  <analyzer>
    <tokenizer class="solr.WhitespaceTokenizerFactory"/>
    <filter class="solr.StandardFilterFactory"/>
    <filter class="solr.LowerCaseFilterFactory"/>

    <filter class="solr.KeywordRepeatFilterFactory"/>
    <filter class="solr.PorterStemFilterFactory"/>
    <filter class="solr.RemoveDuplicatesTokenFilterFactory"/>
  </analyzer>
</fieldType>

```

Tokenizer used:

```
<tokenizer class="solr.WhitespaceTokenizerFactory"/>
```

Filters used :

Stemmer used:

Porter Stemmer Used from Solr : to convert all the terms to root

```
<filter class="solr.PorterStemFilterFactory"/>
```

Additional parameters: To remove duplicates and keywords from the auto spell

```
<filter class="solr.RemoveDuplicatesTokenFilterFactory"/>
```

```
<filter class="solr.KeywordRepeatFilterFactory"/>
```

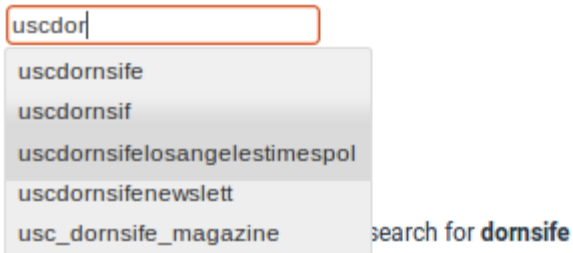
#### *Build the Component:*

The component is built explicitly after the core has been successfully loaded by calling `suggest.build=true`.

Did not cover N-gram construction to create Autocomplete for multiple terms.

It did not tokenise and showed the text joint like : thus it did predict but not with spaces, If this could be considered although needs improving.

Search:



The screenshot shows a search interface. At the top, there is a label 'Search:' followed by a text input field containing the text 'uscdor'. Below the input field is a dropdown menu with a list of suggestions: 'uscdornsife', 'uscdornsif', 'uscdornsifelosangelestimespol', 'uscdornsifenewslett', and 'usc\_dornsife\_magazine'. To the right of the dropdown menu, the text 'search for dornsife' is visible.

#### *Integration:*

##### *1. Did you mean?*

Call `Spell Corrector.php` and fetch the correct word for each word entered and display the concatenated the result for each corrected word. The phrase links to the hyperlink which fetches the results for corrected phrase.

##### *2. Auto Complete:*

JSONP call to fetch the results from port 8983, SOLR. Suggest Handler is called and array of phrases is fetched in dropdown. On select of dropdown element corresponding results are displayed.

#### *Demo FeedBack:*

Home page was coming at 3-4 position as the pages are sorted with score in regular where as when sorted with pagerank homepage comes on top.

Search:

dornsife

☒ Sort by Page Rank

## Search Results

2659 results were found for the search for dornsife

### Results 1 - 10 of 2659:

#### [USC Dana and David Dornsife College of Letters, Arts and Sciences](#)

**Link:** <http://dornsife.usc.edu/>

**File Type:** text/html **File Size:** 24.26KB

**Description:** The largest and oldest of the USC schools, USC Dornsife functions as the academic core of the university, offering courses and advancing knowledge across the humanities, social sciences and sciences. **Author:** Found **Keywords:** usc, college, usc, college, education, students, graduate, undergraduate, admissions, humanities, social sciences, natural sciences

**URL:** No URL Found **Date:** No date found

#### [Home > USC Dornsife Gateway Internship Program > USC Dana and David Dornsife College of Letters, Arts and Sciences](#)

**Link:** <http://dornsife.usc.edu/gatewayinternships>

**File Type:** text/html **File Size:** 7.78KB

**Description:** No description **Author:** No author Found **Keywords:** usc, college

**URL:** No URL Found **Date:** No date found

#### [Home > Career Pathways > USC Dana and David Dornsife College of Letters, Arts and Sciences](#)

**Link:** <http://dornsife.usc.edu/careerpathways>

**File Type:** text/html **File Size:** 8.92KB

**Description:** USC Dornsife Student Special Services Career Pathways Website **Author:** No author Found **Keywords:** usc, college, career, co-curricular, curricular, employment, fellowships, graduate school, pathways, professional scholarships, student special services

**URL:** No URL Found **Date:** No date found

*Thus relevance of home page became less compared to other publications page because of the lucene search.*