

Solr Search and Facets Implementation

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives



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- ▶ Introduction to Solr search



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- ▶ Salient features of Solr search



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- ▶ **Installation of Solr search**



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- ▶ Introduction to Solr search
- ▶ Salient features of Solr search
- ▶ Installation of Solr search
- ▶ **Creation of Facets**



System Requirement

To record this tutorial, I am using



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- ▶ **Ubuntu Linux 16.04 OS**



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- ▶ **Drupal 8**



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To record this tutorial, I am using

- ▶ **Ubuntu Linux 16.04 OS**
- ▶ **Drupal 8**
- ▶ **Firefox web browser**



Pre-requisites



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- ▶ **You should have basic knowledge of Drupal**



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- ▶ If not, for relevant Drupal tutorials please visit <http://spoken-tutorial.org>



Pre-requisites

- ▶ You should have basic knowledge of Drupal
- ▶ If not, for relevant Drupal tutorials please visit <http://spoken-tutorial.org>
- ▶ A working Internet connection



API



- ▶ **Application Programming Interface**



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- ▶ **Set of rules to interact with each other**



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- ▶ **Set of rules to interact with each other**
- ▶ **For more details, see the “Additional reading material” link**



What is Solr Search API



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- ▶ **Open source search platform used to build Search Application**



What is Solr Search API

- ▶ **Open source search platform used to build Search Application**
- ▶ **Create custom search engine**



Solr Search API



Solr Search API

- ▶ **The default search does database search**



Solr Search API

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- ▶ **It leads to slower process and extra load on MySQL**



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- ▶ **Solr provides a different server for searching**



Solr Search API

- ▶ **The default search does database search**
- ▶ **It leads to slower process and extra load on MySQL**
- ▶ **Solr provides a different server for searching**
- ▶ **It will speed up the search operation**



Salient Features of Solr



Salient Features of Solr

- ▶ **Scalable**



Salient Features of Solr

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- ▶ **Full text search capabilities**



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- ▶ **Full text search capabilities**
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- ▶ **Full text search capabilities**
- ▶ **Flexible and extensible**
- ▶ **Friendly user interface**
- ▶ **Fault tolerance**



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What is Solr core?

- ▶ It is used to perform operations like indexing and analyzing
- ▶ It is a single index and associated configuration files
- ▶ We can index data with different structures



What is Solr core?

- ▶ **A Solr server may contain one or multiple cores**



What is Solr core?

- ▶ **A Solr server may contain one or multiple cores**
- ▶ **Multiple cores are used when we need multiple versions, languages, or configurations**



Summary

- ▶ **Install Solr application**
- ▶ **Install essential modules via composer**
- ▶ **Configure Solr Search API**
- ▶ **Configure Facets**



About the Spoken Tutorial Project

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



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