

# ElasticSearch - Magento 2

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## Installation

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You will require to install MageDelight Base Extension first. If it is not installed then please download it from <https://www.magedelight.com/pub/extensions/magedelight-base.zip> and unzip the package file into the root folder of your Magento 2 installation.



Before installing the extension, please make sure to **Backup your web directory and store database**

- Install elasticsearch on your webserver, here is the reference link <http://blog.magedelight.com/how-to-install-elasticsearch-on-centos-7-ubuntu-14-10-linux-mint-17-1/>
- Unzip the extension package file into the root folder of your Magento 2 installation.
- Install elastic search library
  - Back up your current composer.json

```
cp composer.json composer.json.bk
```

- Edit composer.json file and add below code to required clause.

```
"elasticsearch/elasticsearch" : "~5.0"
```

- Update dependencies

```
composer update
```

- Connect to SSH console of your server:
  - Navigate to the root folder of your Magento 2 setup
  - Run command as per below sequence,

```
php -f bin/magento setup:upgrade
```

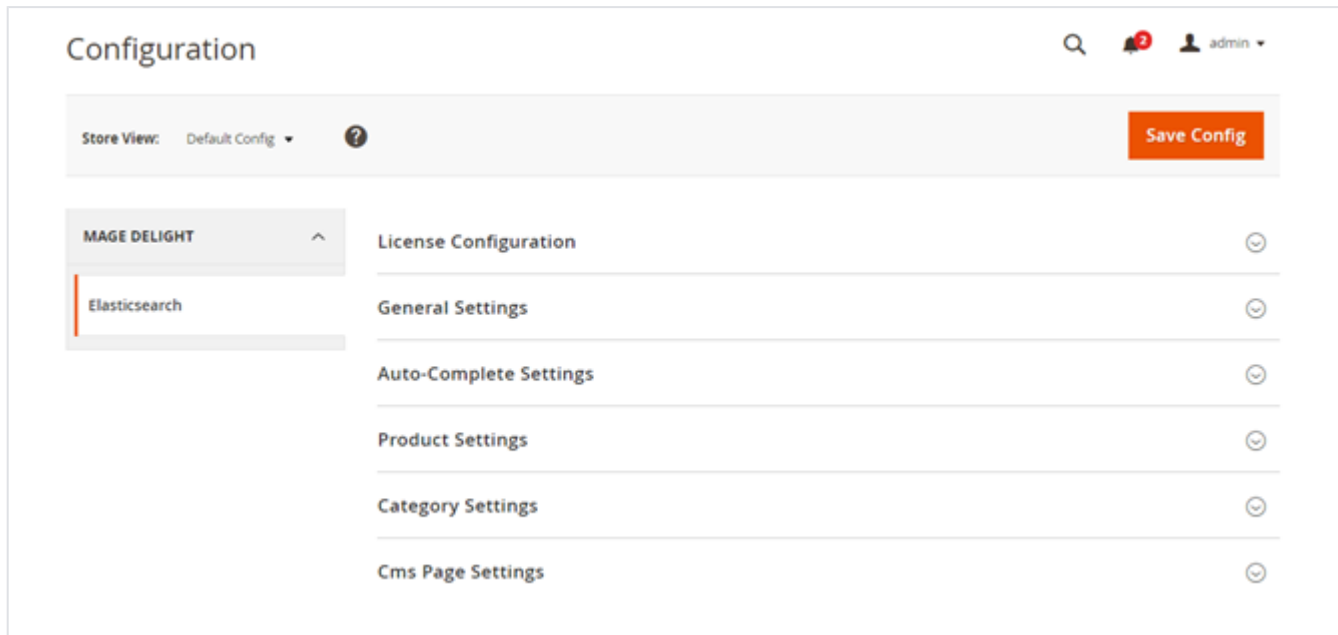
```
php -f bin/magento module:enable Magedelight_Elasticsearch
```

```
php -f bin/magento setup:static-content:deploy
```

- Flush store cache
- log out from the backend and log in again

## Backend Configuration (Admin side)

Version less than 3.0.0



The screenshot shows the Magento Admin Configuration page. At the top, there's a search icon, a notification bell with a red circle containing '2', and a user profile icon labeled 'admin'. Below this is a 'Store View' dropdown set to 'Default Config' with a help icon. A prominent orange 'Save Config' button is on the right. On the left, a sidebar shows 'MAGE DELIGHT' expanded, with 'Elasticsearch' selected. The main content area lists several configuration sections, each with a dropdown arrow: License Configuration, General Settings, Auto-Complete Settings, Product Settings, Category Settings, and Cms Page Settings.

Store View	Configuration Section
Default Config	License Configuration
Default Config	General Settings
Default Config	Auto-Complete Settings
Default Config	Product Settings
Default Config	Category Settings
Default Config	Cms Page Settings

Elastic Search Enabled

[store view]

Enable

▼

Enabling this module will disable the default Fulltext search.

Host

[store view]

10.16.16.215:9200

Url Key for search result page

[store view]

elasticsearch

Prefix for elasticsearch index

[store view]

pre

Test Connection

Search Preference

[store view]

\*Wildcard Search\*

▼

Search Operator

[store view]

AND

▼

- **Elastic Search Enabled:** This can enable/disable the Elasticsearch extension.
- **Host:** This a configuration of servers in the [host]:[port] format where you should indicate your Elasticsearch nodes. e.g.: "localhost:9200".
- **URL Key for search result page:** Admin can define search result URL key.
- **Prefix for elasticsearch index:** Admin can set prefix for create elasticsearch index. It will be helpful when you are using same elasticsearch server for multiple website.
- Please re-index all indexes after change prefix.
- **Test Connection:** By using this button admin can test if elasticsearch server have been configured properly or not.
- **Search Preference:** Search preference supports wildcard support, it has options as below
  - **"\*Wildcard Search"** – supports any character before search string and after search string  
I.e. if buyer writes word 'watch' as search query then it will show product 'digital watch for men' as it is supporting all words before and after search keyword
  - **"\*Wildcard search at start"** – supports any character before search string  
I.e. if buyer writes word 'watch' as search query then it will also show product 'digital watch' as it is supporting all words before search keyword
  - **"Wildcard search at end"** – supports any character after search string  
I.e. if buyer writes word 'watch' as search query then it will also show product 'watch for men' as it is supporting all words after search keyword
  - **"Precise Search"** – supports exact match for search string  
I.e. if buyer writes word 'watch' as search query then it will show product only matching 'watch' as it is supporting only precise search keyword
- **Search Operator:** Search operator supports "AND" or "OR" operator to match for search result
  - **AND** - If you are looking for 'digital watch' with "AND" operator then it will show you matching result which has both words 'digital' and 'watch'
  - **OR** - if you are looking for 'digital watch' with "OR" operator then it will show you matching result either has words 'digital' or it has word 'watch'

Auto-Complete Settings

No Result Template

[store view]

<span>No Result Found..</span>

Auto-complete View

[store view]

Normal View

#### Auto-Complete Settings

1. **No Result Template:** This is the message that will appear if there is no result for the search
2. **Auto-complete View:** This is the configuration for set auto suggest view. Either it is normal or Mega view.

## Product Settings



Display products in Auto Suggest  
[global]

Yes

Product Search Result Limit  
[store view]

3

Attributes for Re-index  
[website]

Activity  
Category Gear  
Categories  
Climate  
Collar  
Color  
Cost  
Country of Manufacture  
created\_at  
New Theme

Searchable Attributes  
[website]

Activity  
Category Gear  
Categories  
Climate  
Collar  
Color  
Cost  
Country of Manufacture  
created\_at  
New Theme

Allow Fallback Search  
[global]

Yes

Re-index Product

- **Display products in Auto Suggest:** This is the configuration for show product in auto suggest.
- **Product Search Result Limit:** This is the configuration for display limited number of products in auto suggest.
- **Auto Re-index Product:** Admin can re-index product data for elasticsearch server.
- **Searchable Attributes:** Define which product attributes are searchable. For example the Name and SKU.
- **Allow fallback Search:** Enable the approximate search. When customers are not aware of full product name then fallback search helps them search the product with a single word or a part of the product name only
- **Re-index Product:** Admin can re-index product data for elasticsearch server.

Category Settings

Display categories in Auto Suggest

[global]

Yes

▼

Category Search Result Limit

[store view]

3

Re-index Category

#### Category Settings

- **Display categories in Auto Suggest:** If enabled then Categories will also be displayed in the auto suggest.
- **Category Search Result Limit:** This is the configuration for display limited number of categories in auto suggest.
- **Re-index Category:** Admin can re-index category data for elasticsearch server.

Cms Page Settings

Display cms pages in Auto Suggest

[global]

Yes

▼

Cms page Search Result Limit

[store view]

3

Re-index Cms Page

#### CMS Page Settings

1. **Display cms pages in Auto Suggest:** If enabled, then CMS pages will also be displayed in the auto suggest.
2. **CMS page Search Result Limit:** This is the configuration for display limited number of CMS Pages in auto suggest.
3. **Re-index CMS Page:** Admin can re-index CMS Pages data for elasticsearch server.

Version above 3.0.0 and more

## General Settings

Search Engine [global]	Magedelight Elasticsearch Engine ▼
Host [global]	localhost
Port [global]	9200
Prefix for elasticsearch index [global]	elasticsearch_
Enable Elasticsearch HTTP Auth [global]	No ▼
Elasticsearch HTTP Username [global]	admin
Elasticsearch HTTP Password [global]	..... 🔑
<div>Test Connection</div>	
Search Preference [global]	*Wildcard Search* ▼

- **Search Engine:** Select any search engine to enable website search. We recommend to use MageDelight ElasticSearch Engine.
- **Host:** Provide host to connect to ElasticSearch Server Service.
- **Port:** Provide port to connect to ElasticSearch Server Service.
- **Prefix for elasticsearch index:** Provide prefix for ElasticSearch index. We recommend to always set provide prefix to bifurcate search result.
- **Enable Elasticsearch HTTP Auth:** Select "Yes" to enable ElasticSearch HTTP authentication.
- **Elasticsearch HTTP Username:** Provide username for HTTP authentication.
- **Elasticsearch HTTP Password:** Provide password for HTTP authentication.
- **Search Preference:** Search preference supports wildcard support, it has options as below,
  - **"\*Wildcard Search"** – supports any character before search string and after search string  
I.e. if buyer writes word 'watch' as search query then it will show product 'digital watch for men' as it is supporting all words before and after search keyword
  - **"\*Wildcard search at start"** – supports any character before search string  
I.e. if buyer writes word 'watch' as search query then it will also show product 'digital watch' as it is supporting all words before search keyword
  - **"\*Wildcard search at end"** – supports any character after search string  
I.e. if buyer writes word 'watch' as search query then it will also show product 'watch for men' as it is supporting all words after search keyword

## Search Settings




Auto-complete Limit  
[store view]

Display Suggestions  
[store view]

No Result Template  
[store view]

Auto-complete View  
[store view]

Searchable Attributes Setting  
[store view]

Search						
Attribute	Preference	Operation	Weight	Action		
Colo	Wild	AND	2			
Prod	Wild	AND	1			
Shor	Wild	AND	3			
Add Attribute						

- **Auto-complete Limit:** Provide character length to start auto-complete.
- **Display Suggestions:** Select "Yes" to display search suggestions.
- **No Result Template:** Provide custom no result text to display when search result is found empty.
- **Auto-complete View:** Provide search view as normal view or mega view. Mega View has column partitions to show search results,
- **Searchable Attributes Setting:** Provide search attribute settings,
  - **Attribute:** Select attribute to search
  - **Search Preference:** Select search preference for attribute either as wildcard or spell correction.
  - **Operator:** Select operator either as AND or OR
  - **Weight:** Provide search weight to modify search result orders.



## Product Settings

**Display products in Auto Suggest**  
[store view] Yes ▼

**Product Title**  
[store view] Products

**Product Search Result Limit**  
[store view] 10000

**Name Length**  
[store view]

**Short Description Length**  
[store view]

- **Display products in Auto Suggest:** Select "Yes" to enable products in auto suggest.
- **Product Title:** Provide custom title for products search result block.
- **Product Search Result Limit:** Provide maximum product search result limit to display in search block.
- **Name Length:** Provide maximum length for product name to display in search result.
- **Short Description Length:** Provide maximum length for product short description to display in search result.

## Category Settings

**Enabled**  
[global] Yes ▼

**Category Title**  
[store view] Category

**Category Search Result Limit**  
[store view] 10

- **Enabled:** Select "Yes" to enable category search.
- **Category Title:** Provide custom title for category result block.
- **Category Search Result Limit:** Provide maximum limit to show result for category search.

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## Cms Page Settings

**Enabled**  
[global]

Yes



**CMS Title**  
[store view]

Pages

**Cms page Search Result Limit**  
[store view]

15

- **Enabled:** Select "Yes" to enable CMS page search.
- **CMS Title:** Provide CMS page result block custom title.
- **CMS page Search Result Limit:** Provide CMS page result maximum limit.

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## Log Settings

**Enable Log**  
[global]

Yes



- **Enable Log:** Select "Yes" to enable log for this extension.

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## Backend Functionality

Elasticsearch Synonyms

Import

Add Synonym

Filters

Default View

Columns

Actions

8 records found

20 per page

<

1 of 1

>

<input type="checkbox"/>	ID	Term	Synonyms	Store View	Created	Modified	Action
<input type="checkbox"/>	1	men	man, male	All Store Views	Dec 19, 2017 5:17:15 AM	Dec 19, 2017 5:17:15 AM	Select
<input type="checkbox"/>	2	women	girl, female	All Store Views	Dec 19, 2017 5:17:15 AM	Dec 19, 2017 5:17:15 AM	Select
<input type="checkbox"/>	3	men	man, male	All Store Views	Dec 19, 2017 5:20:58 AM	Dec 19, 2017 5:20:58 AM	Select
<input type="checkbox"/>	5	men	man, male	All Store Views	Dec 19, 2017 5:22:42 AM	Dec 19, 2017 5:22:42 AM	Select
<input type="checkbox"/>	6	women	girl, female	All Store Views	Dec 19, 2017 5:22:42 AM	Dec 19, 2017 5:22:42 AM	Select
<input type="checkbox"/>	7	men	man, male	All Store Views	Dec 19, 2017 5:24:49 AM	Dec 19, 2017 5:24:49 AM	Select
<input type="checkbox"/>	8	women	girl, female	All Store Views	Dec 19, 2017 5:24:49 AM	Dec 19, 2017 5:24:49 AM	Select
<input type="checkbox"/>	9	test	new	All Store Views	Dec 19, 2017 5:25:37 AM	Dec 19, 2017 5:25:37 AM	Select

## Manage Synonyms

The extension keeps all the word with its synonyms added by admin. Click on Add Synonym would redirect admin to the page where one can enter the synonyms.

Term \*

Synonyms \*

Store View \*

All Store Views

Main Website

krishtechnolabs

Customs solutions

Main Website Store

Default Store View

- **Term:** Add the main word (product name) for which synonym is being added.
- **Synonyms:** enter the synonyms of the word (product name).
- **Store View:** For each store view admin can set different set of synonyms.

Import Synonyms

admin

← Back

Import

Upload CSV

Upload

Store View \*

All Store Views

Main Website

Main Website Store

Default Store View

## Import Synonym

- **Upload CSV:** You can upload bulk synonyms using CSV file format.
- **Store View:** For each store view admin can upload different CSV files.

## Manage Stopword

Elasticsearch Stopwords

Import

Add Stopword

Filters

Default View

Columns

Actions

6 records found

20

per page

<

1

of 1

>

<input type="checkbox"/>	ID	Stopword	Store View	Created	Modified	Action
<input type="checkbox"/>	1	and	All Store Views	Dec 19, 2017 5:20:26 AM	Dec 19, 2017 5:20:26 AM	Select
<input type="checkbox"/>	2	test	All Store Views	Dec 19, 2017 5:20:26 AM	Dec 19, 2017 5:20:26 AM	Select
<input type="checkbox"/>	3	new	All Store Views	Dec 19, 2017 5:20:26 AM	Dec 19, 2017 5:20:26 AM	Select
<input type="checkbox"/>	4	fair	All Store Views	Dec 19, 2017 5:20:26 AM	Dec 19, 2017 5:20:26 AM	Select
<input type="checkbox"/>	5	the	All Store Views	Dec 19, 2017 5:20:26 AM	Dec 19, 2017 5:20:26 AM	Select
<input type="checkbox"/>	6	test	All Store Views	Dec 19, 2017 5:25:14 AM	Dec 19, 2017 5:25:14 AM	Select

The extension keeps all the word with its Stopword added by admin. Click on Add Stopword would redirect admin to the page where one can enter the Stopwords.

The screenshot shows a configuration interface with two main sections. The first section is labeled 'Stopword' with a red asterisk icon and a text input field. The second section is labeled 'Store View' with a red asterisk icon and a dropdown menu. The dropdown menu is open, showing a list of store views: 'All Store Views' (highlighted), 'Main Website', 'krishtechlabs', 'Customs solutions', 'Main Website Store', and 'Default Store View'.

- **Stopword:** enter the word that needs to be skipped while searching. That word would not be considered while extension is getting is search result.
- **Store View:** For each store view admin can set different set of stop words.

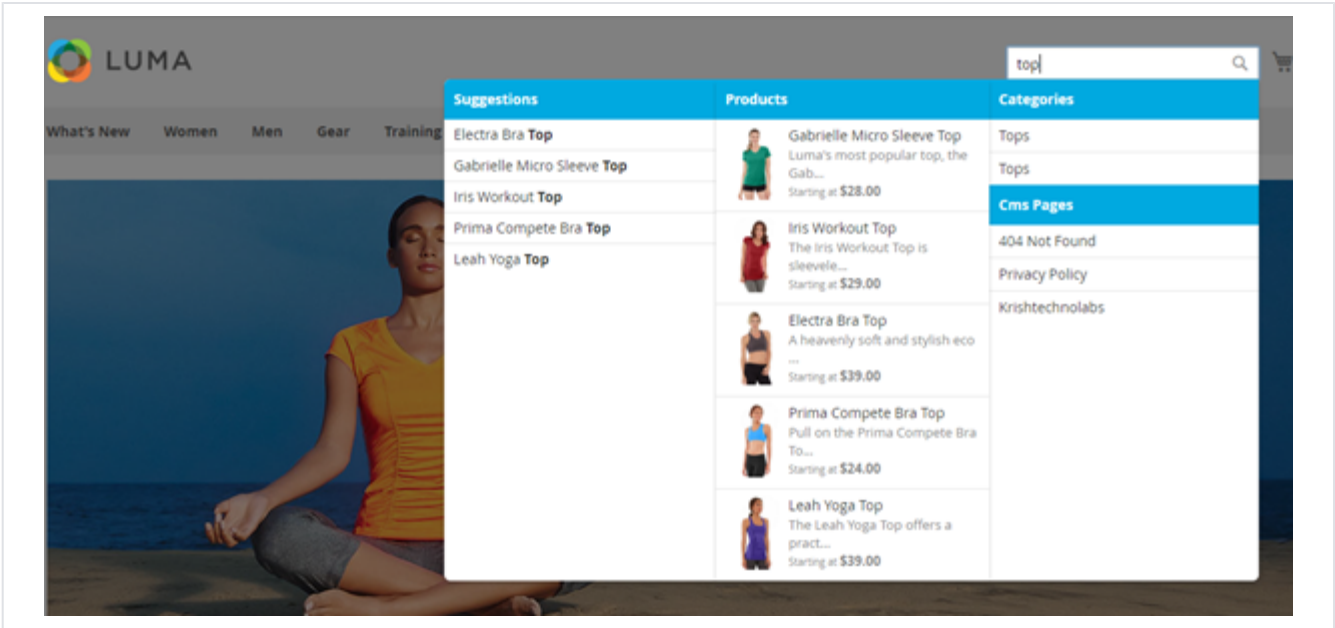
The screenshot shows the 'Import Stopwords' interface. At the top, there is a search bar, a notification bell, and a user profile icon labeled 'admin'. Below this is a light gray bar containing a 'Back' button and an 'Import' button. The main area contains an 'Upload CSV' section with an 'Upload' button. Below that is a 'Store View' section with a dropdown menu showing a list of store views: 'All Store Views' (highlighted), 'Main Website', 'Main Website Store', and 'Default Store View'.

- **Upload CSV:** You can upload bulk Stopwords using CSV file format.
- **Store View:** For each store view admin can upload different CSV files.

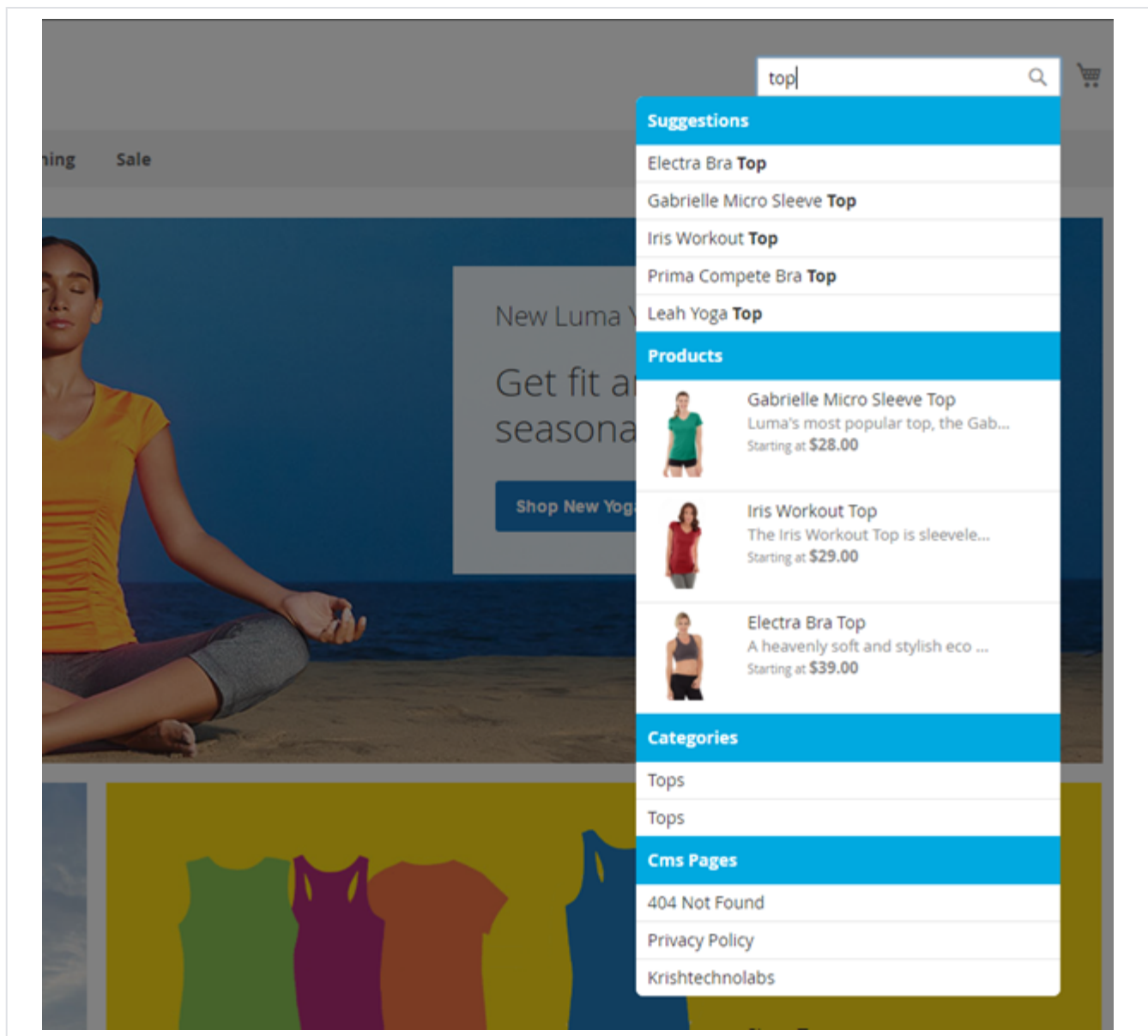
## Frontend Functionality

### Search Product

When customer will search any keyword in search area then he/she can see terms suggestions for their search. Also they can see products, Category and CMS pages for their search keyword. Based on configured search layout






- Mega Menu View



- Normal View

## Search Result Page



[What's New](#)
[Women](#)
[Men](#)
[Gear](#)
[Training](#)
[Sale](#)

## Search Results

Now Shopping by

✕ color: Blue

8 items

SIZE


PRICE

CATEGORY

CLIMATE

Sort By


Relevance



Helios Endurance Tank


★★★★☆ 4 reviews

\$32.00




Rocco Gym Tank

\$24.00




Sinbad Fitness Tank

\$29.00




Atlas Fitness Tank

\$18.00



Cassius Sparring Tank


\$18.00



Bella Tank


★★★★☆ 2 reviews

\$29.00



Nona Fitness Tank

\$39.00



Chloe Compete Tank

★★★★☆ 3 reviews

\$39.00

Here customer can see search results of keyword which is search by them. Here they can also filter their result by use of Layered Navigation and also apply sorting to result.

## Demo

[Click here](#) to visit frontend.

[Click here](#) to visit backend admin panel.

## FAQs

[Click here](#) to visit FAQs.

## Support

[Click here](#) to raise a support ticket using your MageDelight account.

## Additional Services

[Click here](#) to get the customized solution for this extension.

Thank you for choosing **MageDelight!**



