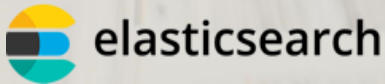# Elasticsearch

Rapidly deliver intelligent search and listings results.

Elasticsearch can now be configured as the search provider for tradeit meaning more product data can be indexed in less time, decreasing the load from tradeit, and increasing the speed of getting product information in front of your customers. By powering the product search and listings, hundreds of thousands of records can be analysed in sub-seconds and displayed back to the user in the blink of an eye. It provides improved search term handling, enhanced query performance, better result relevancy and reliability.

Functionality

With Microsoft SQL Server Full Text Search not being actively developed and with the backing of a whole community of developers behind it delivering regular updates, enhancements and support, Elasticsearch is now being adopted as the industry standard for building fast, full-text search functionality. With Elasticsearch ideally suited to ecommerce sites with a large number of products, it can now be configured as the search provider for tradeit.

Site Speed

Elasticsearch brings significant speed increases over SQL meaning results are returned more quickly and more accurately to users.

Fuzzy Search Passes

Keyword matches now cater for fuzziness on search passes allowing for spelling mistakes or mistyping, so if the user enters the term incorrectly the same results would be returned.

Removal Of 'Stop' Words

Stop words like 'to', 'the', 'i', 'and' etc... which are included in a search term, are removed from keyword matches so only the other words are matched giving more consistent results.

Exact Phrase Matching

Exact matches are boosted to ensure they rank above fuzzy matches whilst the amount they are boosted can be configured via tradeit.

Language Inflections

Language inflections on keyword matches are supported, so the same set of results would be returned whichever of the related words was included in the search.

Synonyms

Synonyms can be created and stored so the same search results can be returned against searches for similar products helping to improve user experience and allowing for different naming conventions.

Partial Matches Within Keywords

Elasticsearch has the ability to match search terms anywhere within keywords, including the start, middle or end.

Configurable Fuzziness

Configure the level of fuzziness for each search pass including turning it off, setting it to be automatic, or specifying the number of characters that can be changed.

Boost Products By Metric

Boosting products by metric in tradeit will adjust the rank of products in the search results or product listing when the configured sort option is selected.

Weighted Search Passes

When aggregated search passes are enabled, you can weight the importance of each pass to promote more exact matches and promote matches based on certain fields that are deemed more important (i.e. product name).

Aggregated Multiple Search Passes

Elasticsearch can support multiple search passes in one, so all search passes could be executed in one request to Elasticsearch and it will provide a set of results for each search pass.

Multiple Sort Fields

Configure two-dimensional sorting in tradeit allowing merchants to combine options like Best Sellers + In stock.

In Stock Sort

An additional sort option of 'In Stock' has been enabled in tradeit to allow merchants to display items that are in stock ahead of those that aren't when users apply that sort option.

Boost Products by Product Group

Any products in boosted product groups will always appear at the top of the search results and product listing when the configured sort option is selected. Ideal for pushing groups like new products, in season products or particular brands.

Enhanced Functionality

Some additional enhanced functions are available but require the implementation of components in tradeit in order for merchants to be able to use them.

'More Like This' Product Metric

List products in order by how much they are like a supplied product, the list of products can be restricted to a channel or category. The products are determined by how much their name and/or description match the given product.

Recommended Search Terms

Fuzzy suggestions based on indexed products, rather than previous searches, can be returned meaning results are delivered immediately and with more logic. Your search tool doesn't need a history of previous searches to build up its logic.

Recommended Categories

Suggested categories appear in the search fly-out when they match the search term. The introduction of fuzziness, synonyms and analysers via Elasticsearch greatly enhances this.

Learn more

Speak to us about configuring Elasticsearch as the search provider for tradeit.