

**DME API. Live Search In Two Tables Demo**

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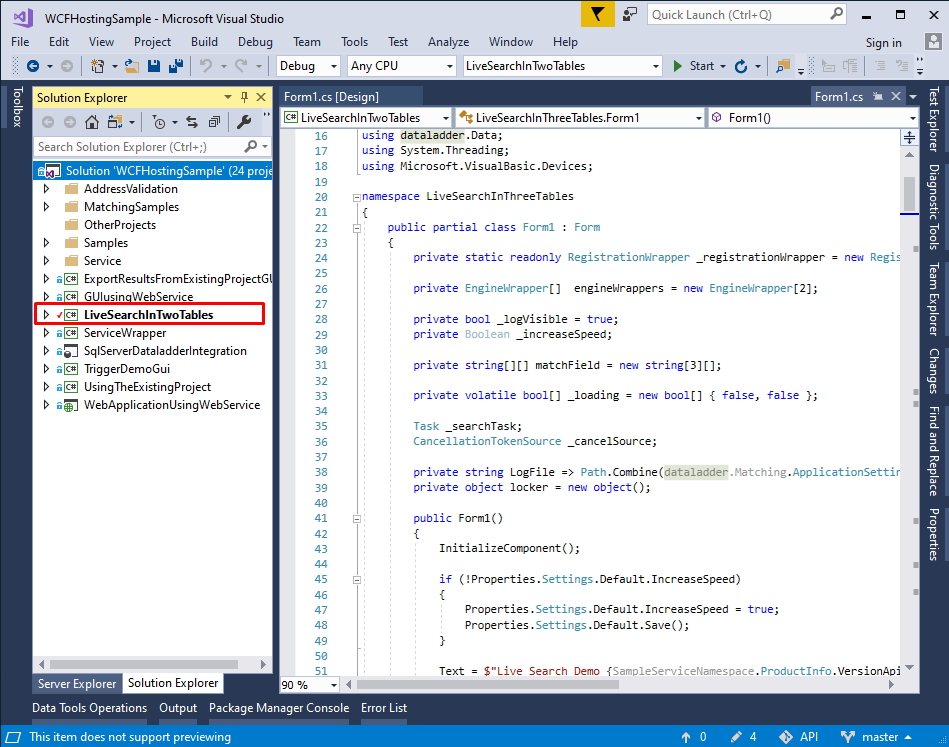
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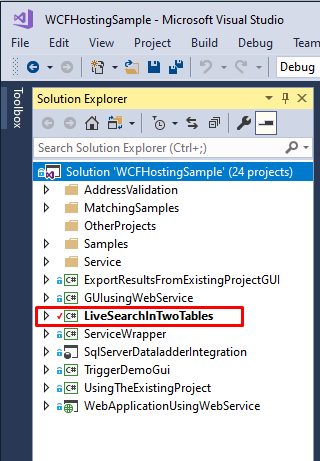
‘Live Search In Two Tables’ is the example of a standalone application which works with DME’s API. This application collects and joins results from few independent data sources.

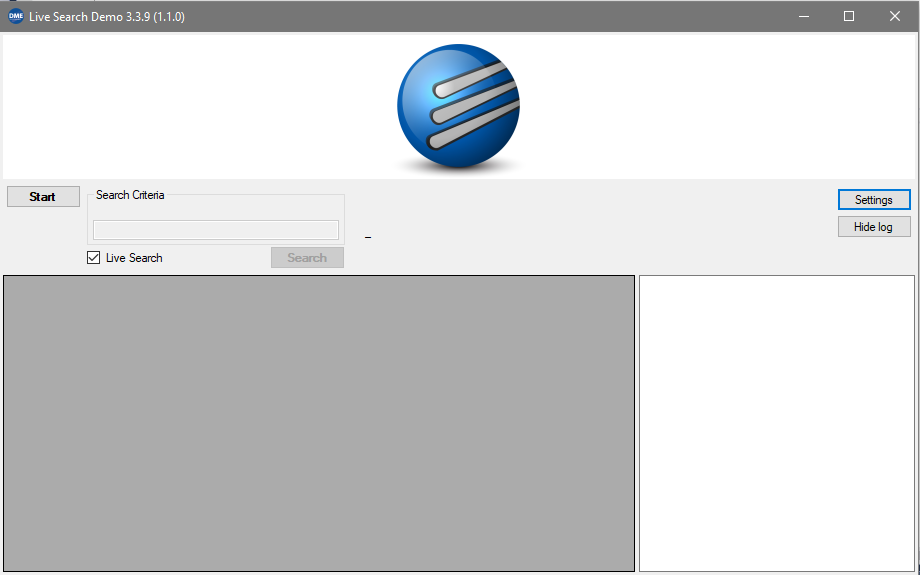
This example can work with simple match definitions or with multiple definitions with cross column and group searchadvanced options.

# Installation

Open “Samples” folder. Open solution in Visual Studio. Choose “LiveSearchInTwoTables” project. Start it.







# Preconditions

There are some restrictions that must be executed:

* Get API registration key from *DataLadder Sales Team*.
* Register this key in Data Match Enterprise (DME version should not be less than 3.1.7)
* Restart API application
* Create a project in Data Match Enterprise.
  + The Match Configuration Tab Settings do not affect the results of Live Search
  + Add a definition(s). Definition could contain few criteria with/without advanced options
  + Save the project
  + Close the project. If the project is open in the DME, we will not be able to work with it in ‘Live Search In Two Tables’

Note: No need to run matching in DME.

# System Requirements

Application uses API libraries in the mode that consumes memory and decreases searching time. It requires a lot of RAM.

For example, for processing data sources with 20 … 100 million records, PC must have 32… 128 Gb RAM.

Approximate system requirements are shown in the table bellow

|  |  |  |
| --- | --- | --- |
| Quantity of records in huge data sources | Minimum Requirements | Recommend Requirements |
| Less 10 millions | RAM: 16 Gb  OS: 64 bit | RAM: 32 Gb  OS: 64 bit |
| 20 ... 100 millions | RAM: 64 Gb  OS: 64 bit | RAM: 128 Gb  OS: 64 bit |

Note: If ‘SystemOutOfMemoryException’ critical error happens while the application is running, it means that memory is not enough.

# Settings

* First start of the application:
* Press ‘Settings’ button
* Click ‘Choose project file’ and select the DME project from pre-conditions step
* Close window

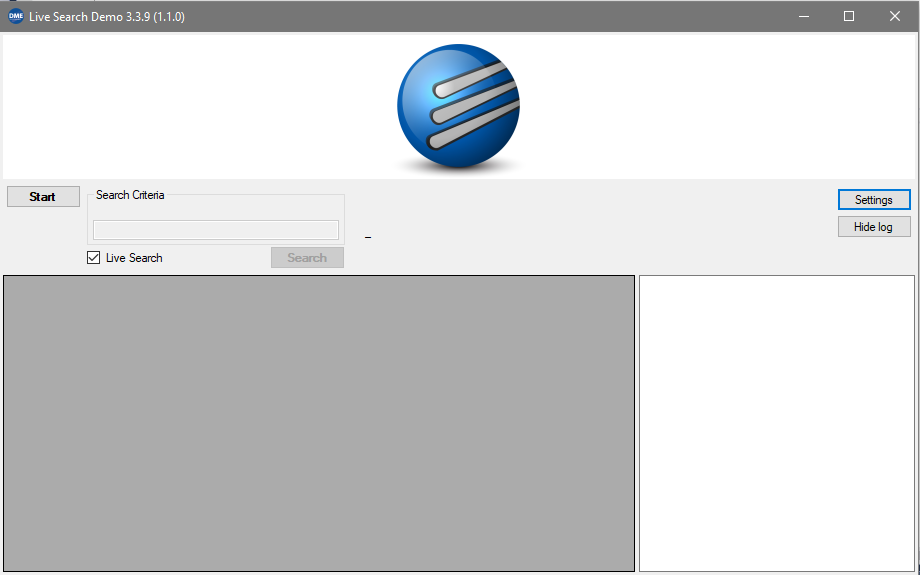
Note: If user is going to work with these projects in a future, no need to set up above settings. They would be automatically taken.

There are path settings in the bottom part of the window. During first attempt, path settings are loaded from DME settings. If user wants use different folders for API and DME it can be done by changing paths in the text boxes and pressing ‘Save paths’ button.

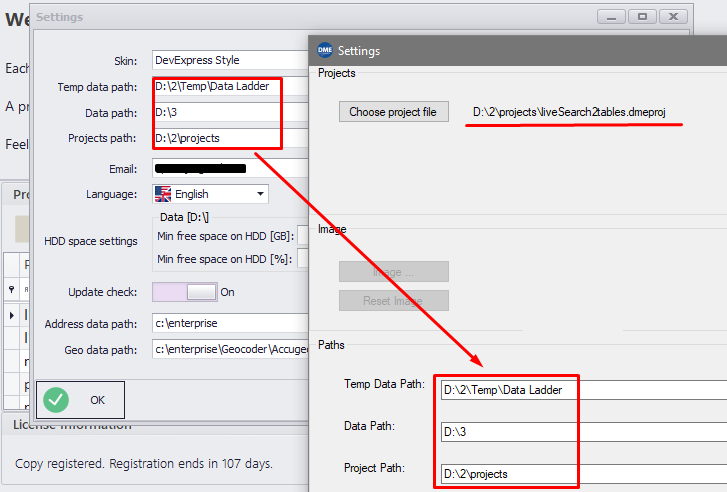
# How to use

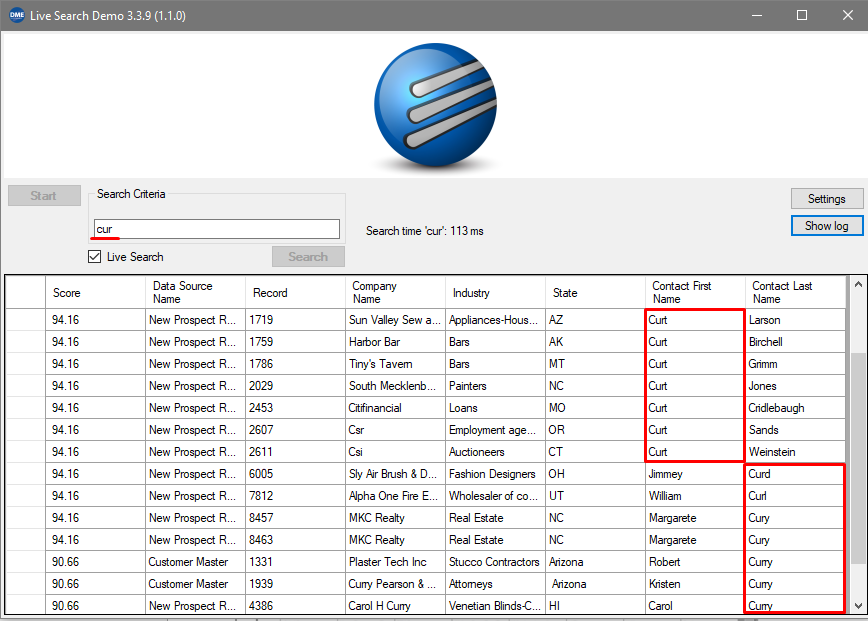
When all settings are done, User can start working with application.

* Press *Start* button. Loading message will appear in the right side of the window.
* The ‘Search Criteria’ text box will be active after loading is finished. ”Loading finished successfully” will appear.
* User can enter a search word in Search Criteria field. This word will be matched with fields that are chosen in the DME project’s Definition.
* User will get joined results from project in the result window



Prepared project can be used from API Project folder. In this case, copy project “liveSearchDemo.dmeproj” into DME project folder, or create a new one project with Data Match Enterprise.





Dictionary:

* Start – starts loading selected project
* Search Criteria – text box field for entering search words
* Settings – window with ability to select project, change path, etc
* Increase speed – use API acceleration (rough and fast)
* Count of records – max count of matches per project
* Live Search – Disable/Enable Live Search option
* Search – use when Live Search option is disabled
* Hide Log – Hide/Unhide log window
* Log window – information about search results (words, time, count)