

IRI Three Word Western Name Matching Requirement Document

International Registries, Inc.

**Document Control Information**

**Document Information**

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# Overview

International Registries, Inc. (IRI) is using Oracle Watch List Screening Solution. Oracle has implemented the Watchlist Management and Watchlist Screening (3 bucket solution) Solutions for IRI. Inspirage is engaged with IRI for development and support of OWS solution.

For the current requirement, Inspirage has been engaged by IRI for enhancing the Three Word Western Name Matching solution. Inspirage is modifying the solution of Individual screening to filter the results based on the new requirements for three-word western name matching. The business requirement, details of Input and Output are mentioned below.

# Business Requirements and Filtering Logic – 3+ word western name matching

In Individual Screening we are getting the matching results based on individual names. For three-word input name (e.g., THOMAS JAMES JACKSON), we are currently getting matching results as output based on the three-word matching rules provided below:

* 1st word, 2nd word and 3rd word – THOMAS JAMES JACKSON
* 1st word, 3rd word – THOMAS JACKSON
* 1st word, 2nd word – THOMAS JAMES
* 1st word, \*, 3rd word – THOMAS J\* JACKSON (\* denotes any name as the second word, example THOMAS JR JACKSON, THOMAS JOHN JACKSON, THOMAS MARK JACKSON, etc.)

As part of the new requirement, below two additional three-word matching rules need to be added to the existing three-word matching rules:

* 2nd word, 1st word – JAMES THOMAS
* 3rd word, 1st word – JACKSON THOMAS
* 3rd word, 2nd word – JACKSON JAMES

The changes done for 3-word matching rule is applicable to 2 words, 3 words and 3+ words name result outputs as well. Names could be with one letter variations, phonetic matches, as well as the same name with additional names or aliases.

For 2-word or 3-word western name search, the result should always be 2 or more words names having relevant combinations, i.e. If the search name is 2, 3 or more word western names, then one-word names should not be retrieved in the results.

# Example

Below are the OWS results for individual name THOMAS JAMES JACKSON, MICHAEL MIRASOL FLORES and FLORES MICHAEL MIRASOL

**Scenario 1 – THOMAS JAMES JACKSON (Highlighted results are additionally expected after this solution)**

Input

Full Name THOMAS JAMES JACKSON

|  |  |
| --- | --- |
| Full name | Logic |
| THOMAS JAMES JACKSON | 1st word +2nd word + 3rd word |
| THOMAS JACKSON | 1st word + 3rd word |
| THOMAS JAMES | 1st word + 2nd word |
| THOMAS J JACKSON  THOMAS JOHN JACKSON  THOMAS JR JACKSON  THOMAS MARK JACKSON | 1st word + \* + 3rd word |
| JAMES THOMAS | 2nd word + 1st word |
| JACKSON THOMAS | 3rd word + 1st word |
| JACKSON JAMES | 3rd word + 2nd word |
| ~~JACKSON~~  ~~THOMAS~~  ~~JACK~~  ~~TOM~~ | ~~ONE WORD NAME~~ |

**Scenario 2 – MICHAEL MIRASOL FLORES (Highlighted results are additionally expected after this solution)**

Input

Full Name MICHAEL MIRASOL FLORES

|  |  |
| --- | --- |
| Full name | Logic |
| MICHAEL MIRASOL FLORES | 1st word +2nd word + 3rd word |
| MICHAEL FLORES | 1st word + 3rd word |
| MICHAEL MIRASOL | 1st word + 2nd word |
| MICHAEL M FLORES  MICHAEL MATT FLORES  MICHAEL MATTHEW FLORES  MICHAEL MIKE FLORES | 1st word + \* + 3rd word |
| MIRASOL MICHAEL | 2nd word + 1st word |
| FLORES MICHAEL | 3rd word + 1st word |
| FLORES MIRASOL | 3rd word + 2nd word |
| ~~MIKE~~  ~~MICHAEL~~  ~~FLORES~~ | ~~ONE WORD NAME~~ |

**Scenario 3 – FLORES MICHAEL MIRASOL (Highlighted results are additionally expected after this solution)**

Input

Full Name FLORES MICHAEL MIRASOL

|  |  |
| --- | --- |
| Full name | Logic |
| FLORES MICHAEL MIRASOL | 1st word +2nd word + 3rd word |
| FLORES MIRASOL | 1st word + 3rd word |
| FLORES MICHAEL | 1st word + 2nd word |
| FLORES M MIRASOL  FLORES MIKE MIRASOL  FLORES MATT MIRASOL  FLORES MATTHEW MIRASOL | 1st word + \* + 3rd word |
| MICHAEL FLORES | 2nd word + 1st word |
| MIRASOL FLORES | 3rd word + 1st word |
| MIROSAL MICHAEL | 3rd word + 2nd word |

**Scenario 4 – MILES GARETT WALKER (Highlighted results are additionally expected after this solution)**

Input

Full Name MILES GARETT WALKER

|  |  |
| --- | --- |
| Full name | Logic |
| MILES GARETT WALKER  MYLES GARETH WALKER  MYLES GARRET WALKER | 1st word +2nd word + 3rd word |
| MILES WALKER | 1st word + 3rd word |
| MILES GARETT | 1st word + 2nd word |
| MILES M WALKER  MILES GARRY WALKER | 1st word + \* + 3rd word |
| GARETT MILES | 2nd word + 1st word |
| WALKER MILES | 3rd word + 1st word |
| WALKER GARETT | 3rd word + 2nd word |

**Scenario 5 – JOHN WAYNE (Highlighted results are additionally expected after this solution)**

Input

Full Name JOHN WAYNE (2 WORD NAME)

|  |  |
| --- | --- |
| Full name | Logic |
| JOHN WAYNE  JON WYNE  CHON WAYNE | 1st word + 2nd word |
| JOHN ALEX WAYNE  JOHNY M WAYNE | 1st word + \* + 2nd word |
| WAYNE JOHN | 2nd word + 1st word |
| WAYNE BRUCE JOHN  DAVID JOHN WAYNE  DANIEL WAYNE JOHN ROBERT | 2nd word + \* + 1st word  \* + 1st word + 2nd word  1st word + 2nd word + \* |
| ~~JOHN~~  ~~WAYNE~~ | ~~ONE WORD NAME~~ |