## WSUI Relevancy Ranking algorithm

The search application should find results that contain ALL keywords in the document, email, contact etc.

Keywords entered in quotes (e.g. “john smith”) should find results that contain the exact phrase *john smith* in the content. The 2 words must be exactly in that order in the content.

Ranking should be in this order

1. Email addresses where parts of the email address contain the keyword(s). Only list the top 5 results with a button to show more…

Examples:

|  |  |  |
| --- | --- | --- |
| Keyword(s) | Hits | NOT a hit |
| John | [john@example.com](mailto:john@example.com)  bob@john.com | [bob@example.com](mailto:bob@example.com) |
| John smith | [John.smith@example.com](mailto:John.smith@example.com)  john@smith.com | [john@example.com](mailto:john@example.com) |
| John example | [john@example.com](mailto:john@example.com) | [bob@example.com](mailto:bob@example.com) |
| Example | [john@example.com](mailto:john@example.com)  [bob@example.com](mailto:bob@example.com)  [karen@example.com](mailto:karen@example.com) | [bob@smith.com](mailto:bob@smith.com) |

1. Emails with subject line containing keyword(s) sorted by most recent to oldest
2. Documents with filename containing keywords sorted by most recent to oldest
3. Emails with content containing keywords sorted by most recent to oldest
4. Documents wilh content containing keywords

Here are some example queries:

example

|  |  |  |
| --- | --- | --- |
| Position | address/email/file | Note |
| 1 | [john@example.com](mailto:john@example.com) | Top result is an email address containing the keyword |
| 2 | [bob@example.com](mailto:bob@example.com) | Next is another email address containing the keyword. This address comes from an older email than the top result |
| 3 | Email with the subject : software example  Date sent : 2/2/2013 | Top result after email addresses. Most recent email with the subject containing the keyword |
| 4 | Email with the subject : car example  Date sent : 1/1/2013 | Second most recent email with the subject containing the keyword |
| 5 | Document with file name:  Software\_example\_report.docx  Modified 2/2/2013 | Top result after email subjects containing the keyword. Most recent document with the filename containing the keyword |
| 6 | Document with file name:  car\_example\_test.docx  Modified 1/1/2013 | Second most recent document where the filename contains the keyword |
| 7 | Email with  subject : test plan  Content: test plan example  Date sent : 2/2/2013 | Top result after filenames containing the keyword. Most recent email containing keyword in the content of the email but NOT in the subject |
| 8 | Email with  subject : testing  Content: test plan example  Date sent : 1/1/2013 | Second most recent email containing the keyword in the content of the email but NOT in the subject |
| 9 | Document with filename:  Test\_plan.doc  Content contains: test plan example  Date modified : 2/2/2013 | Top result after emails containing the keyword in the content of the email but NOT in the subject. This document contains the keyword in the content but NOT in filename. |
| 10 | Document with filename:  car\_plan.doc  Content contains: car plan example  Date modified : 1/1/2013 | Second most recent document containing the keyword in the content but NOT in filename. |