Requirements

Version 4

August 3, 2007

1 Search

1.1 Query language

- 1. Completed. The user must be able to query by wildcards representing single words, multiple words, a given number of words, multiple characters and single characters
- 2. Completed. The system should provide the user with the ability to use 'or' in queries

1.2 Raw results (before display)

- 1. Completed. For each match found the surrounding text must be returned up to a paragraph or a certain number of words (whichever is smallest)
- 2. Completed. Maximum word limit must be configurable
- 3. Completed. The system should provide the option of "paging" search results at the document level
- 4. Completed. For each match found the matched expression's position (e.g. sentence and paragraph number) in the document must be returned
- 5. Completed. For each match found the document ID of the document containing the matched expression must be returned
- 6. Completed. The returned results must preserve the markup representing non-textual data
- 7. Completed. The user must be able to sort the returned results
 - alphabetically by left/right word up to two levels' depth
 - by position (e.g. sentence and paragraph number) of the matched expression in the document
 - by document ID
 - by the matched expression

2 Filtering

- 1. Mostly completed. ETA 10/8. The user must be able to filter the results by
 - (Completed) Discipline
 - (Completed) Text type (e.g. essay, report...)
 - (Completed) Year of study
 - (Completed) Native speaker status
 - (Completed) Position in document (i.e. abstract, introduction, middle, conclusion)
 - Paragraph and sentence number

3 System logging

- 1. Under assessment. For each query the system must log
 - The expression to be matched
 - The network address of the user
 - The username of the user if registered
 - The document ID of the matches the user requests further details for
 - Other information required for development purposes
- 2. Under assessment. The system must log the number of concurrent users
- 3. Under assessment. The system must alert of potential automated access

4 User registration

4.1 Anonymous users

- 1. Completed. The system must allow complete access to anonymous users
- 2. Under assessment. After a certain number of searches a prompt inviting the user to register to help the project must be given
- 3. Under assessment. Registration must be completely optional

4.2 Registration process

- 1. Under assessment. When registering the user must be prompted for
 - their valid email address (to act as a username)
 - a password
 - their name (optional)
 - the institution to which they belong (optional)
 - their status (e.g. professor, postgraduate student, undergraduate student etc...) (optional)
 - their feedback (optional)
- 2. *Under assessment*. The user's email address must be validated before registration is completed

4.3 Registered users

- 1. *Under assessment*. Registered users must be provided with their search history
- 2. *Under assessment*. The number of results displayed per page should be configurable by the user

5 User interface

5.1 Accessibility

- 1. Completed. The interface must be web-based
- 2. Completed. The interface must be accessible with a wide range of web browsers on a wide range of platforms and conform to all appropriate standards where practical
- 3. Under assessment. The interface must conform to the "Web Content Accessibility Guidelines" [WACG] W3C standard to priority level 1
- 4. *Under assessment.* The system must be able support up to 100 concurrent users

5.2 User view

5.2.1 Main page

- 1. Completed. When the user first enters the site the main page must be displayed, displaying introductory information
- 2. Completed. The user must be able to navigate from this page to the Search page

5.2.2 Search page

- 1. Completed. The search page must cleanly and intutively offer options for search functionality
- 2. Completed. The user must be able to specify filters by which to filter the results at this stage
- 3. ETA 3/8. The user must not be able to select contradictory filters (i.e. system must recognise that availability of some filter options is dependent on previously selected filters)
- 4. ETA 10/8. The search page must offer context-sensitive help
- 5. Under assessment. The search must offer the user template queries
- 6. Completed. A successful search must navigate the user to the results page

5.2.3 Results view

- Completed. The results page must display the search results with keywords in context
- 2. Completed. All results must be displayed in tabular form, with matched expressions stacked vertically
- 3. Completed. For each result, the position in the document must be displayed
- 4. Completed. For each result, the document ID must be displayed
- 5. Completed. The user must be able to click on a given result to view the Details view for that result
- 6. Completed. The user must be able to change the sort preference for the displayed results
- 7. Completed. The user must also be able to perform some filtering directly from the results page
- 8. Completed. Any metadata representing non-textual data (e.g. formulae, tables, illustrations...) must be replaced with a simple text substitute (e.g. [formula], {table} ...)
- 9. Completed. The system should allow access to all documents through document-level paging
- 10. Completed. The system should, by default, return up to 500 results
- 11. ETA 10/8. The system should provide the facility to download search results as a .csv file

12. Under assessment. The system should provide statistical information (eg "Your search produced 123 results out of a potential XXX documents [or words]) and this information should be broken down by the filters used

5.2.4 Details view

- 1. Completed. The details view must display an expanded excerpt for the search result in question
- 2. Completed. The document ID of the document must be displayed
- 3. Completed. The location of the matched expression in the document must be displayed
- 4. Completed. The matched expression must be emphasised in some fashion
- 5. Completed. Any metadata representing non-textual data (e.g. formulae, tables, illustrations...) must be replaced with a substitute

5.3 Administrator view

- 1. *Under assessment*. Administrators must be able to log in to the interface to arrive at administrator view
- 2. *Under assessment*. Administrators must be able to perform log reporting in administrator view
- 3. *Under assessment*. Administrators must be able to perform user management in administrator view