

Level 5 Functional Requirements

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Level 5 of the new Livingstone Online site will allow users to access and sort our core manuscript items and contextual images using data drawn from our MODS records. The Level 5 page “frame” will be based on elements already designed for other parts of the site and will be provided as a separate mockup with documentation by November 3.

The central part of the Level 5 landing page, which is discussed below, will give users a number of options for browsing our core data. It is hoped that most of these browse options will be straightforward to implement and/or will draw their capabilities from existing Drupal modules.

The functional requirements for a few additional (relevant) items follow the list of browse options, below.

1a) Complete MODS Records for Manuscripts. This will be a faceted online tabular list of the metadata drawn from the MODS records. Since there are more fields than we could display at once on the screen in an elegant fashion, the ability to view individual MODS fields (e.g. item title, date, recipient, repository, etc.) will be controlled by boxes that users can check and uncheck. Default viewing will begin with a set of boxes already checked with the rest unchecked. Sorting options should include faceted sorting, as discussed with Kristian during our last visit to UCLA. The table will also need to autogenerate links to:

a) transcriptions and/or images, if available, for a given item.

b) (from the abbreviated bibliographical field) the full bibliographical records that are currently stored in Zotero and can be exported into MODS and/or other formats.

So, for instance, in the MODS file for a given item we might have: “Waller, LLJ, 2:102.” In this made-up example, “Waller, LJDL” represents *The Last Journals of David Livingstone*, edited by Horace Waller. We have a complete Zotero entry that references this abbreviation, so we'd want “Waller, LLJ” to be a link that would call up the Zotero entry in some form (pop up or otherwise).

c) (from the recipient, place, and repository fields) the authority versions of this information, which we are currently considering storing in separate “name,” “place,” and “repository” XML authority files (see below).

1b) Complete MODS Records for Contextual Images. Same as previous, except that the MODS records for these images are much simpler and have fewer fields. All fields can all be displayed at once and the check box feature will not be needed. The table will also need to:

a) Show a thumbnail image beside each entry.

b) Link to a high resolution version of the given image.

2) Periods of Livingstone's life. This will consist of six images that, once clicked, would open a faceted tabular list of items (as in #1, above) drawn from the given period of Livingstone's life: Early years (1813-1841); first African trip (1841-1856); first British interlude (1856-1858); second African trip (1858-1864); second British interlude (1864-1866); final journey (1866-1873), etc. Each of these periods would begin and end on a specific date to be provided. The layout of the tiled images can be based on level 2 layout.

3) Letter recipient. This will consist of a faceted (by letter of the alphabet) list of recipients auto-generated from the MODS, with each name followed by the number of items available for the given recipient and offering the option of expanding to see all items written to that recipient. Each name will also be linked to biographical information found in the XML authority name file (see below) that users will have the option to display.

4) Repository. Same as letter recipient, except in this case we should have a number of faceted sorting options: name of repository, location, number of items, and project partner or not. For those repositories that are project partners already, we would link to include images of the repository beside the entry. Each repository entry will also be linked to information found in the XML authority repository file (see below) that users will have the option to display.

5) Timeline. The timeline will run vertically from top of the browser window downward, provisionally from 1813 (top) to 1873 (bottom). Here's an example of such a timeline (although this timeline is oriented horizontally, not vertically): http://www.branchcollective.org/?page_id=68
The time line will allow users to zoom in and out (for more date granularity) and will include:

a) links to chronologically-arranged Livingstone items, as drawn from the MODS records, but appearing in abbreviated form (for instance, item title only). When a user clicks on the abbreviated record, the full MODS entry will appear and, if item is imaged and/or transcribed, will include a link to go to the given item.

b) milestones from DL's life and the nineteenth century, as added manually.

6) Geo-location - A map of the world, offering links from locations in which Livingstone wrote particular items. The place of composition entries in the MODS records will need to be correlated with real-world locations.

7) Search

We also welcome suggestions for other browse options not cited above.

1) Zotero bibliography. We have Zotero-based entries for a series of secondary items (books, periodical articles, etc.). In Zotero, this bibliographical record is divided into various sections (for instance, primary materials, edited collections, biographical items, etc.). The Zotero information can be exported into a variety of formats, including MODS. We would like this information to be displayed on Level 3, but also linked to in a few places on Level 5 (as described above).

2) Name, place, and repository XML authority files. These files will be developed by us and provided to UCLA. We would like parts of Level 3 (for instance, a reference in the critical materials to a repository), Level 4 (for instance, the relevant parts of the metadata), and Level 5 (as described above) to access and display the information found in this files, as relevant.

3) Databases. We have developed Excel-based databases (for instance, acknowledgement names and affiliations; project-based team member names and affiliations) that we would like to preserve as databases in the *Livingstone Online* Islandora backend, then display in a stylized manner as part of the Level 3 information.