

2016

MacDonald Designs: The Robert Addison Library Project

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Introduction

The purpose of this report is to document the following:

- high-fidelity prototype,
- information architecture,
- user interface design,
- usability testing, and
- to provide a blueprint to follow during the building of the site.

To prevent making design decisions during the building phase of the website, I have put all IA and design decisions into this document. Each page of the high-fidelity prototype can effectively function as a checklist while building the site.

Process

The process to this point has involved:

- Research
 - o going through the books of the Robert Addison Library and documenting provenance, shelf number, and any other notes
 - o taking digital photos of the titles pages, illustrations, etc.
- UX design and IA
- Database design
- Database construction & testing
- IA redesign, UI design and documentation
 - High fidelity prototypes based upon early UX design
 - o IA redesign taking into account the database design
 - UI design of the search functions

After testing the second version of the database (large data sample), I began reconsidering the user interface regarding search. I then revisited my low fidelity prototypes and redesigned them with the database in mind and developed the search interface. Based on the original UX research, most users wished to search or browse via directory. I have included directory searching in this design, but have also developed advanced search options, which will aid users who seek a specific title.

The following section shows one web page design per page with a detailed description. Some elements are found on every page throughout the site while others are specific to individual pages of groups of pages. The following elements are global:



- Header and banner with image
- Global navigation bar with four main menu items, additional dropdown menu items, and a search bar for the site (not the catalogue)
 - o Use Zend Framework Lucene to index and search the site
- Breadcrumbs
- Footer with global navigation links and an external link to my portfolio site (http://www.neil-macdonald.com/ portfolio/index.html).

In addition to the prototypes, I also updated the site map. The original design had included a menu item titled "events" which would link to two pages, "past events" and "upcoming events." During the planning stage of this project, I explored the possibility of using an open-source content management system (CMS) to build the web catalogue. After examining the different options, I concluded that these were insufficient for the needs of this project. A second idea was to create a database and website for the catalogue and use a separate CMS for the other pages of the site. Both the database and site could be designed to work together and appear seamless.

The second alternative would allow the Archives Committee to use the site without any programming experience. The third alternative, which occurred to me when I began the redesign of this project in 2016, is to create a separate Facebook page for the library's events page. Now, the menu will simply link to an external Facebook page.

I did not include a wireframe of the events page in this documentation as I have limited control over the visual design of a Facebook page.

Information Architecture

Books, History, & Help

My UX research came up with the category names: Books, History, and Help for the various pages of the Robert Addison Library. However, when doing the information architecture for the site, I concluded that I did not need to have actual pages with those names, but they do function as menu titles for drop down selections and are used in both the URLs and breadcrumbs as hierarchical indicators.

The following table lists all of the permanent pages and a representation for each class of instance only page (full record displays, search results, etc.).

URLs

Page Name	URL
Home	www.addisonlibrary.org
404 error	www.addisonlibrary.org/error/404.phtml
Galleries	www.addisonlibrary.org/books/galleries
Galleries image	/books/galleries/?imagename
Directories	www.addisonlibrary.org/books/directories
(list of all directories)	
Directories (individual)	/books/directories/?directoryname
Directories (results)	/books/directories/?directoryname/?results
Full record	/books/directories/?directoryname/?results
	/?recordname
Advanced search	www.addisonlibrary.org/books/search
Addison	www.addisonlibrary.org/history/addison
Web catalogue project	www.addisonlibrary.org/history/webcat
Original catalogue	www.addisonlibrary.org/history/cat
Alternate catalogues	www.addisonlibrary.org/history/altcats
Provenance	www.addisonlibrary.org/history/provenance
Richard Atkins	/history/provenance/atkins
William Beale	/history/provenance/beale
Thomas Topping	/history/provenance/topping
Frequently Asked Questions	www.addisonlibrary.org/help/faq
Contact us	www.addisonlibrary.org/help/contact
Visitor request form	www.addisonlibrary.org/help/visitor
Site map	www.addisonlibrary.org/help/sitemap
Events	www.facebook.com/addisonlibrary/

Images

There are over 2,000 images in the Robert Addison Library. Naturally, a naming convention is necessary to keep them organized. The format went through a couple of iterations before I reached the final system, which works for both identification and site development.

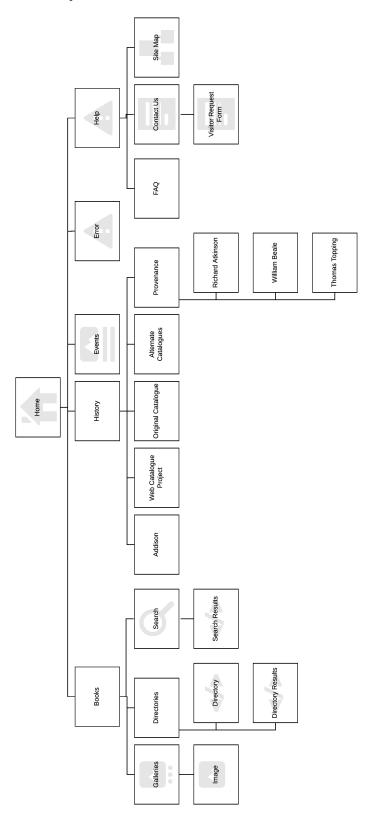
Coding element	Example	Description
Convent	ions for images used	in the database and on the website
Class	AL	This designates that the image is a master copy and belongs to the Addison Library.
Image No.	0001	A four-digit number that corresponds to a book number in the Robert Addison Library.
Duplicate copy	0001-1 0001-2	The dash after the AL number indicates that duplicate copies of this title exist. The number immediately following the dash indicates to which copy the image refers.
Volume	v01	A combination of a small "v" and two digits. This designates a title as a volume in a series. The number is derived from the volume itself and zeros are used as place holders to enable computes to sequence the images correctly (e.g. 010410).
Series (optional element)	a-z	A letter of the alphabet that designates an image to be one of a series from the same title. If only a title page image exists for a book, then no series element is used. Series are arranged in the following order: • title pages • author images • maps and/or illustrations • signatures establishing provenance • marginalia (notes, doodles, etc.)
File type	.jpg	Designates the image file type.
Examples	AL0094 AL0133b AL0710v03.jpg AL0120-1a.jpg	
Convention used for image archiving, not display on the web		
Image editing	_ed	The suffix "_ed" appears if any image has been cropped or otherwise edited. This is removed before the image uploaded to the server.

2016

More than one camera was used in the photographing of the books in the Robert Addison Library and the image sizes (number of pixels) in the master files varies depending upon the camera used.

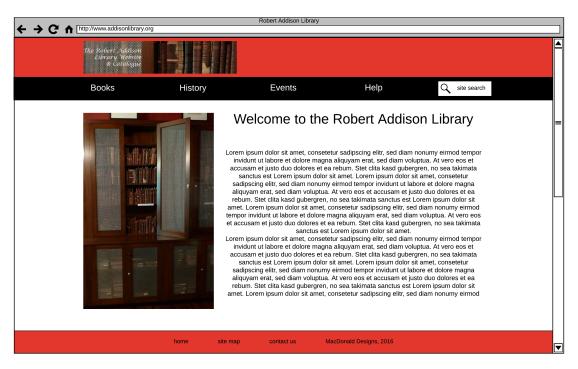
All images have been resized for display on the Robert Addison Library Website and Catalogue. These images have been given a standard width of 250px for thumbnails and 800px for larger display images. The length of the image can vary depending upon the orientation of the image and whether any cropping was done to the image.

Site Map



High Fidelity Prototype

Home



Page title: Home

URL: www.addisonlibrary.org & www.addisonlibrary.org/home

Hierarchy: above: nothing

below: books, history, events, help

Content: An introduction to the site describing the library and what visitors

can do.

Elements: • Image carousel (Javascript + CSS), images use rollover

display to describe and link to different sections of the site

Requirements: • Html

CSS3

• Javascript (image carousel)

Images

o banner470x99.jpg

AL0035c_600x400.jpg

o AL0104b_600x400.jpg

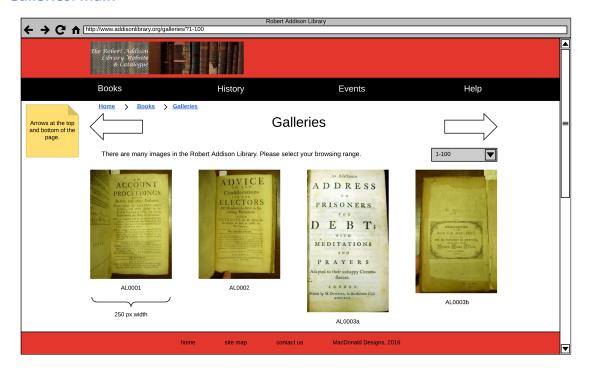
AL0143a_600x400.jpg

o AL0234c_600x400.jpg

AL0289_600x400.jpg

o P1020492_600x400.jpg

Galleries: main



Page title: Galleries

URL: www.addisonlibrary.org/books/galleries

Hierarchy: above: books

below: image

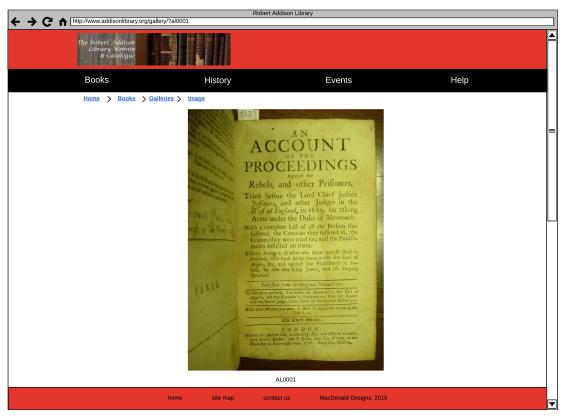
Content: 100 images per page from the Robert Addison Library

Elements: • 100 images each with a width of 250px

Requirements: • HTML

- CSS3
- PHP
 - Dropdown box for selecting image range Flexible design – number of images per row depends on display size
 - o PHP loop to select 100 images per page
 - Links from thumbnails to larger images

Galleries: single image



Page title: Galleries

URL: www.addisonlibrary.org/books/galleries/?AL0001

Hierarchy: above: galleries

below: nothing

Content: A single image selected from the previous page

Elements: • 1 image with a width of 800px

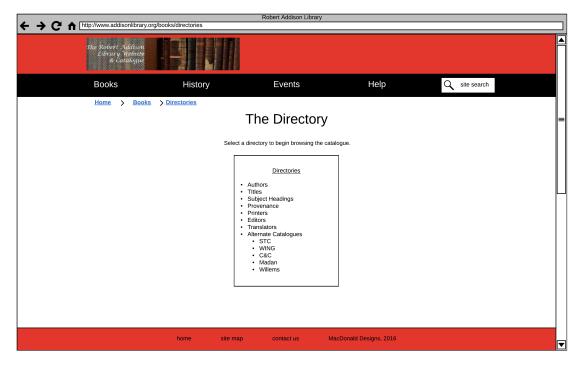
back button to return to the galleries page

Requirements: • HTML

• CSS3

PHP

Directories 1: all directories



Page title: Directories

URL: www.addisonlibrary.org/books/directories

Hierarchy: above: books

below: authors, titles, subject headings, provenance, printers,

editors, translators, alternate catalogues

Content: A list of all of the directory categories. Each category link, when

clicked, will return a complete list of everything under that

category.

Elements: A list with links.

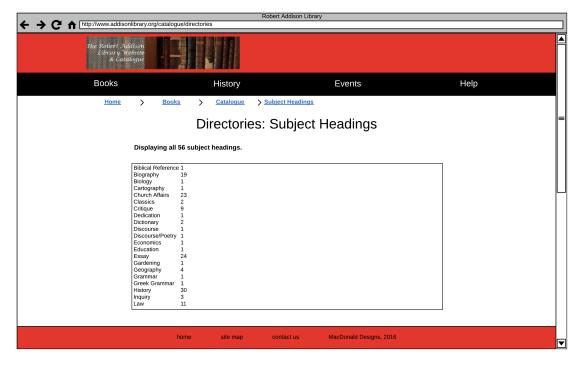
Requirements: • HTML

• CSS3

PHP

 each category must trigger a search of the related category when clicked

Directories 2: single directory



Page title: Directories

URL: <u>www.addisonlibrary.org/books/directories/?subjectheadings</u>

Hierarchy: above: directories

below: all subject headings

Content: A list of all of the subject headings with the number of titles per

heading. Each heading links to a list of titles under that heading.

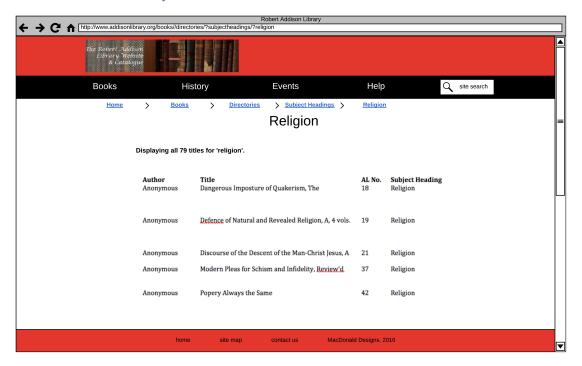
Elements: A list with links.

Requirements: • HTML

CSS3PHP

 each heading must trigger a search of the related heading when clicked

Directories 3: directory results



Page title: Directories

URL: www.addisonlibrary.org/books/directories/?subjectheadings/?reli

gion

Hierarchy: above: subject headings

below: all results for the subject heading religion

Content: A list of all of the results for the subject heading religion. Each result

links to the record for that title.

Elements: A list with links.

Requirements: • HTML

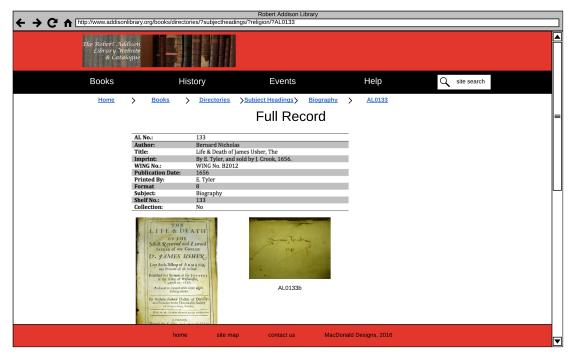
• CSS3

PHP

o each title must trigger a search of the related record when clicked

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Title: full record for AL0133



Page title: AL0133

URL: www.addisonlibrary.org/books/directories/?subjectheadings/?reli

gion/?AL0133

Hierarchy: above: religion

below: nothing

Content: The full record for a single title in the database along with

corresponding images.

Elements: Text and clickable image thumbnails.

Requirements: • HTML

• CSS3

PHP

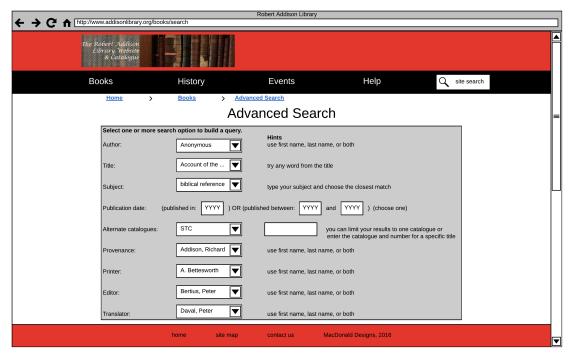
o page displays results from two searches

the full record

the images

 the thumbnails must link to the full-sized version of the image when clicked

Advanced Search



Page title: **Advanced Search**

URL: www.addisonlibrary.org/books/search

above: books Hierarchy:

below: search results

A user interface for searching the database. Content:

Labeled dropdown menus and/or menus with autocomplete and a Elements:

"GO" button to run the search.

Requirements: HTML

CSS3

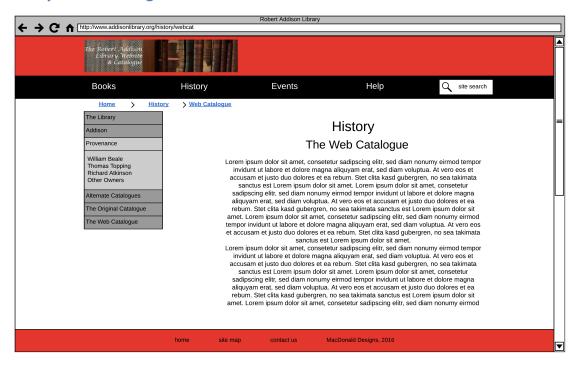
PHP

The search fields must form an MySQL query to be run on the database.

Use Select2 for the autocomplete fields.

https://select2.github.io/

History: Web Catalogue



Page title: Web Catalogue

URL: www.addisonlibrary.org/history/webcat

Hierarchy: above: history

below: none

Content: A description of the web catalogue and the project to put it online.

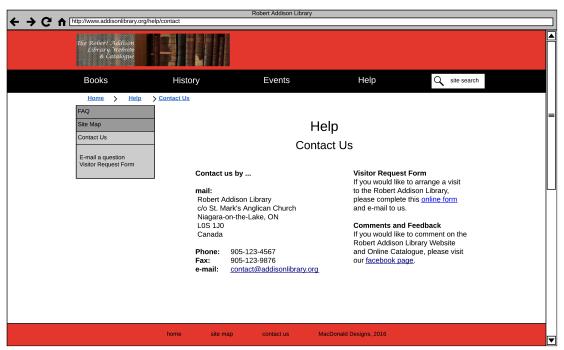
Elements: Text and local (side) navigation.

Requirements: • HTML

CSS3

PHP

Contact Us



Page title: Contact Us

URL: www.addisonlibrary.org/help/contact

Hierarchy: above: help

below: visitor

Content: Information on how to contact the Robert Addison Library for

information or to send in a visitor request form.

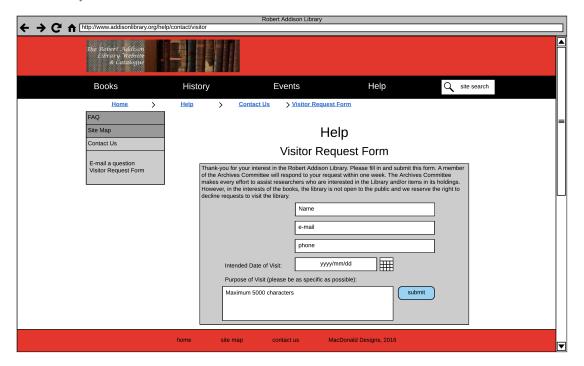
Elements: Contact information and hyperlinks.

Requirements: • HTML

CSS3

PHP

Visitor Request Form



Page title: Visitor Request Form

URL: www.addisonlibrary.org/help/visitor

Hierarchy: above: contact

below: nothing

Content: A web form which users can fill out to request a visit.

Elements: Text input fields, a date picker, and a submit button.

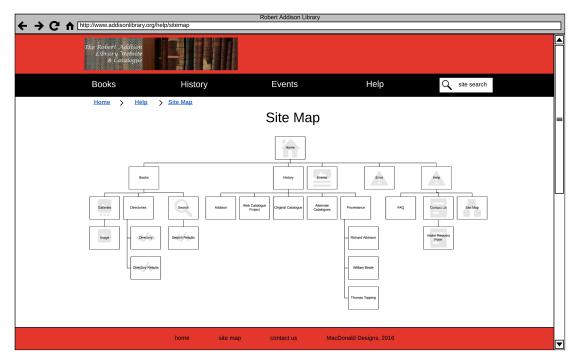
Requirements: • HTML

• CSS3

PHP

 GET from input fields and send form values to Robert Addison Library members.

Site Map



Page title: Site Map

URL: www.addisonlibrary.org/help/sitemap

Hierarchy: above: help

below: nothing

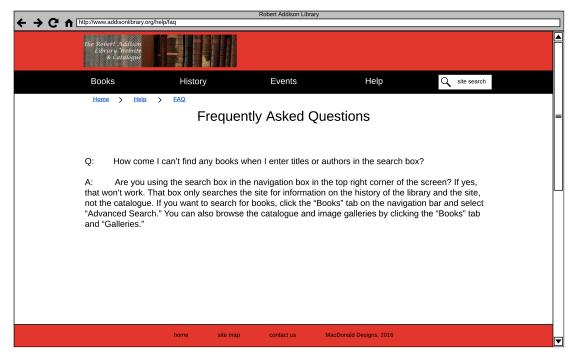
Content: This is a map of the site with links to linkable pages.

Elements: A png with links.

Requirements: • HTML

CSS3PHP

FAQ



Page title: Frequently Asked Questions

URL: www.addisonlibrary.org/help/faq

Hierarchy: above: help

below: nothing

Content: A list of frequently asked (or anticipated) questions and their

answers.

Elements: A list of questions at the top of the page hyperlinked to their

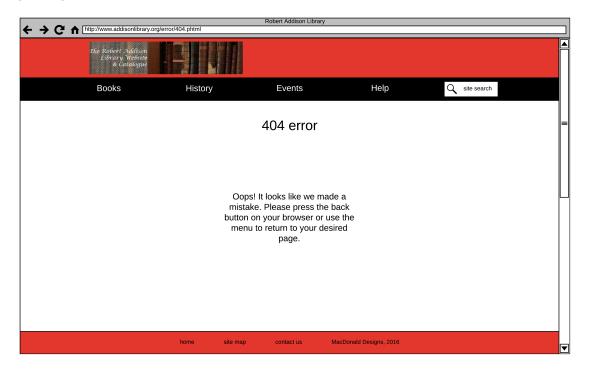
corresponding questions with anchors.

Requirements: • HTML

CSS3

PHP

404 Error



Page title: 404 error

URL: www.addisonlibrary.org/error/404.phtml

Hierarchy: above: home

below: nothing

Content: A brief message apologizing for the inconvenience and

recommending a course of action.

Elements: • HTML

CSS3

PHP

Requirements: