

Project CHART/Brooklyn Visual Heritage Functional and Design Requirements

June 17, 2012

Version 1

1. Introduction

1.1 About This Document

This document describes the technical requirements and core functionality for Phase 2 of the [Brooklyn Visual Heritage](#) website. The Phase 2 deadline is **November 30th, 2012.**

This document was created by The Project CHART Technical Committee: Melissa Brown, Amanda Cowell, Leah Loscutoff, and Lily Pregill.

Abbreviations used in this document: BHS - Brooklyn Historical Society, BM - Brooklyn Museum, BPL - Brooklyn Public Library, BVH - Brooklyn Visual Heritage.

1.2 Background

Brooklyn Visual Heritage was developed through Project CHART (Cultural Heritage, Access, Research and Technology), a collaborative effort of Pratt Institute's School of Information and Library Science, the Brooklyn Historical Society, Brooklyn Museum and Brooklyn Public Library, focusing on the digitization of historic images of Brooklyn and making them easily accessible to a broad and varied audience

BPL has been designated the host and developer of the site. Tom O'Dea and Lisa Chow are the BPL IT leads working with the Technical Committee.

Drupal v.6 is the site platform. While Drupal v.7 is the latest version of the software, v.6 was used to match BPL's in-house website architecture.

Phase 1 of the site was launched in April 2012 using a purchased Drupal theme called [Community](#) to provide baseline CMS functionality for the group to build on. The Phase 1 site is a provisional site, providing only general project information.

1.3 Phase 2 Objectives

This development phase has two main goals:

1. Provide a unified interface to search and display digitized historic Brooklyn images and associated metadata created through Project CHART.
2. Implement sustainable (i.e., minimal staff intervention) workflows for data ingest and site maintenance.

1.4 Audience

Target users for the site are:

- Brooklyn residents
- Researchers who might visit our physical collections
- Armchair historians
- Cultural heritage professionals
- Companies/businesses looking for historical photos
- Local educators

2. Data

2.1 Overview

The image objects and associated metadata are created and stored in each institution's own image management system. Only metadata associated with each image will be stored in Drupal. Image files will not be stored in Drupal. Images will be displayed dynamically using links to each institution's local system.

BHS uses Past Perfect for image storage. Dublin Core is the metadata schema used for cataloging. A CSV formatted data dump will be provided to load into Drupal.

BM uses Luna for image storage. A local metadata schema used for cataloging. BM project data will be made available via an API.

BPL uses Millennium Media Management for image storage. MARC is the metadata schema used for cataloging. A CSV formatted data dump will be provided to load into Drupal.

While a decentralized model using APIs is the preferred method to populate and update this site for all partners, that would require significant development work and cost, which is not feasible at this time.

Any pre-processing of the data before ingest will be done by BPL IT.

2.2 Metadata

The metadata is mapped to Dublin Core, with the following 14 fields:

ID
Title
Creator
Date
Institution
Collection
Subject
Description
More Details
Medium
Rights
Citation
Location
Image Link

See the Data Dictionary for mapping details.

3. Architecture

3.1 Site Structure and Main Navigation

The site has six main sections in addition to the Home page. These six sections will be the main navigation for the site.

HOME: The home page contains an image slider, rotating institutional images and other select images from the site. Directly beneath the slider thumbnails of five of the most viewed images appear. Hovering over these images provides the image title and clicking the image will take the user to that image page. A brief statement about the site appears under the Most Viewed section.

ADVANCED SEARCH: This advanced search page offers field specific searching, filters, and boolean searching.

COLLECTIONS: This page presents the image collections organized by institution. A representative image and short description of the collection, along with external links (i.e., to finding aids or other resources), will be provided. Visitors can browse all images in a specific collection from this page.

BLOG: The blog page presents the last six posts, displaying the image and text snippet. The [default blog page display](#) from the Community theme is used.

ABOUT: This page provides background information on Project CHART, including links to project documentation. Examples of project documentation includes the grant narrative, student practicum projects, and future procedural documents. Links to the specific partner pages on the site are prominent.

TECH INFO : This page details the technical aspects of the project, such as hardware specifications and technical metadata, and provides a “behind-the-scenes” look at coordinating, managing, and sustaining a collaborative digital project.

RESOURCES: The resources page serves as a subject guide to help visitors further their Brooklyn history research.

3.2 Sidebar Blocks

The sidebar blocks are persistent throughout the site.

IMAGE SEARCH: The image search will be prominent at the top of the sidebar. Searches are restricted to image content. Links to more search options, which goes to the Advanced Search page, and Help appear below the search box.

IMAGE BROWSE: Contains links to browse images by collections and subjects.

FOLLOW US: This block embeds twitter data for the BVH twitter account (name forthcoming), displaying the last 5 tweets (number to be determined). [Twitter Pull](#) is one Drupal module that supports this functionality.

IMAGE GALLERY: This block shows 12 images randomly selected from the database. Title metadata appears when hovering on an image and clicking an image takes the user to that specific image page. This functionality can be seen in the sidebar of the [Community demo site](#).

3.3 Header

The header is persistent throughout the site.

LOGO (no heading): The Brooklyn Visual Heritage logo, which is still under development, appears and links back to the site home page.

FAQ: Links to the FAQ page.

CONTACT: Links to the Contact form.

3.4 Footer

Two versions of the footer are used. The Home Footer does not contain the Most Viewed section (this section appears on the body of the Home page) and is used only on the Home page. The Site Footer contains the Most Viewed section in the footer and is used in the rest of the site.

MOST VIEWED: Thumbnails of the top 5 viewed images are displayed, as in the [Community demo footer](#). Hovering over the image provides the title. The image links to the image's page. This is not included in the Home Footer.

CREDIT (no heading): A credit line acknowledging the IMLS for project funding is displayed.

FUNDER & PARTNER LOGOS (no heading): Each associated institution's logo appears, the IMLS logo appears followed by the partner logos, arranged alphabetically. The logos are standardized at 50px in height to be a uniform size.

RSS (no heading): A feed icon displays.

4. Site Functionality

4.1 Phase 1

The functionality listed here was implemented in Phase 1 or is required functionality built into the Community theme, which was enabled. Functionality listed here will be retained in Phase 2.

Function	Details	Notes/Comments
Boolean searching	OR, NOT and phrase search support	Community feature
Dynamic image rotation		Community feature
Google analytics		Completed in Phase 1
Print	Icon to Print page	Community feature
"Share This" social network integration		Community feature
WYSWYG html editor		Community feature

4.2 Basic Requirements

Function	Details	Notes/Comments
Clean URLs	URL syntax uses node title	This includes the image pages.

Contact webform	The contact form will allow visitors to submit an online form that will be emailed to the BVH email (tbd). The form will generate an automated email response to to confirm receipt.	
External links use target= "_blank"	Opens external links in new browser window	
Favicon (favorite icon)	Load 16x16 BVH logo icon	
Most viewed pages	Tally page views and display "Most Viewed" on Home page and in the Site Footer.	
RSS feed	Add cron job to output posts via RSS ; add RSS logo to footer	

4.3 Search Requirements

Function	Details	Notes/Comments
Browsing	Collocate image pages using the following fields: <ul style="list-style-type: none"> • ID • Collection • Subject • Date (range) 	Provide an A-Z browse of IDs, Collections, and Subjects. The Subject and Collection terms in the image page are linked to a results display showing all images using that term. Investigate the possibility of Date and Date range searching based on the incoming data.
"Did you mean ..." spelling suggestions	Add spelling suggestions when a search results in no hits. Ideally, based on database content.	
Faceted browsing	Provide faceted filters of result sets to drill down to subsets of the data.	This is a wish list item, If possible, talk with IT about facets to build. The eXtensible Catalog Toolkit offers this functionality: http://drupal.org/project/xc

Field restricted keyword searching	Keyword search options within the following fields on the Advanced Search page: <ul style="list-style-type: none"> • Title • Description • Subject 	
Filters/Limits	The advanced or image search page will include pre-search limit options for: <ul style="list-style-type: none"> • Node content type - default set to Image on advanced search page. Options are provided to search blog posts and page content. • Institution 	
“Image Search”	The image search box in the sidebar performs a keyword search on the image metadata.	
Page through results	Previous and next options on an image page to browse through a result list.	
Results per page	Offer options for how many images/results to view per page	
Stemming	Index words at their stem to improve retrieval.	See http://drupal.org/project/porterstemmer

4.4 Image Requirements

The image sizes in each display are not included in this document. These sizes will be determined through BPL IT’s input to the Technical Committee.

Function	Details	Notes/Comments
Grid display	Present thumbnail grid display for image results. Title appears when hovering over an image. Clicking the image leads to the image page.	
Lightbox	Clicking the image on the image page, opens a lightbox display.	

4.5 Social Networking/Action Requirements

Function	Details	Notes/Comments
Order image	<p>Icon to purchase image. The icon links to each institution's native interface.</p> <p>BM and BPL use static links: BM: http://www.brooklynmuseum.org/image_services.php</p> <p>BPL: http://www.brooklynpubliclibrary.org/brooklyncollection/purchase-photograph-print</p> <p>BHS image ordering links are dynamic and include the Image field data: BHS: http://brooklynhistory.pastperfect-online.com/35872cgi/mweb.exe?request=imageorder:image=[Image metadata]</p> <p>Example with Image data: http://brooklynhistory.pastperfect-online.com/35872cgi/mweb.exe?request=imageorder:image=011\1974745.JPG</p> <p>BHS's data dump will include this Order Link data.</p>	
"Share This" social network integration	Icon to share page via Facebook, Twitter, Google+. Tumblr, Pinterest, and Delicious.	Edit social networks offered
"Send to Friend" email	Icon to send page by email	
Twitter feed display	Pull project twitter data using BVH twitter account (forthcoming)	Last 5 tweets display. See http://drupal.org/project/twitter_pull

5. Look-and-Feel

5.1 Stylesheet Changes

The final design of the BVH logo is pending. Once that logo design is complete, color changes to headers and links will be needed.

Print stylesheet: Replace Community logo with BVH logo.

5.2 Community Theme Edits

SEARCH BOX: Disable the site search box in the upper right corner. The Image Search box will be the main search box used throughout the site.

COMMENTS: Comments will not be turned on in Phase 2. All references to Comments on the site should be disabled.