

Log and Timber Structure Database Project

First Draft of Project Overview and Specifications

There is to be a MySQL database of records for log and timber structures in Midwestern U.S. Each structure is to have its own record and an identification number. The database will live on a server accessible via the Web. There are to be three HTML user-interfaces for three types of users: Visitors, Documenters, and Administrators. Functions of the user-interfaces and interaction with the database should be written with JavaScript and PHP.

DATABASE FIELDS

Structure Identification

Cover image		Thumbnail	Full-Record Display
ID (number)	Searchable	Search-Result Display	Full-Record Display
Structure Name (text)	Searchable	Search-Result Display	Full-Record Display
Current Location			
Coordinates (format)		Restrictions	
Street Address (text)		Restrictions	
City (text)		Restrictions	
County (text)	Searchable	Search-Result Display	Full-Record Display
State (text)	Searchable	Search-Result Display	Full-Record Display
Zip Code (number)	Searchable	Search-Result Display	Full-Record Display
Original Location (If different from current)			
Coordinates (format)		Restrictions	
Street Address (text)		Restrictions	
City (text)		Restrictions	
County (text)	Searchable	Search-Result Display	Full-Record Display
State (text)	Searchable	Search-Result Display	Full-Record Display
Zip Code (number)	Searchable	Search-Result Display	Full-Record Display
Owner			
Last Name (text)		Restrictions	
First Name (text)		Restrictions	
Residence			
Street Address (text)		Restrictions	
City (text)		Restrictions	
State (text)		Restrictions	
Zip Code (number)		Restrictions	
Contact			
Phone (number)		Restrictions	
Texting (number)		Restrictions	
Email (text)		Restrictions	
Owner history (text)			Full-Record Display
Significant history (text)			Full-Record Display

Structure Information

Structure type	Searchable	Search-Result Display	Full-Record Display
In Use? (Y/N)	Searchable	Search-Result Display	Full-Record Display
Current use (text)			Full-Record Display
Condition (options)			Full-Record Display

Number of floors	Searchable		Full-Record Display
Cellar/basement	Searchable		Full-Record Display
Chimneys (number)	Searchable		Full-Record Display
Chimney placement (text)	Searchable		Full-Record Display
Exterior doors (number)	Searchable		Full-Record Display
Windows (number)	Searchable		Full-Record Display
Roof construction style	Searchable		Full-Record Display
Original Construction year	Searchable	Search-Result Display	Full-Record Display
Original Builder (text)	Searchable	Search-Result Display	Full-Record Display
Original Purpose (text)	Searchable	Search-Result Display	Full-Record Display
Original Construction			
Construction type	Searchable	Search-Result Display	Full-Record Display
(Round log, oval log, square log, timber)			
Primary wood species	Searchable	Search-Result Display	Full-Record Display
Secondary wood species	Searchable		Full-Record Display
Tertiary wood species	Searchable		Full-Record Display
Joinery style (options TBD)	Searchable	Search-Result Display	Full-Record Display
Comments (text)			Full-Record Display
Images	Restrictions		Full-Record Display
Modifications [allow for multiple]			
Modification year	Searchable		Full-Record Display
Construction type (options)	Searchable		Full-Record Display
Material (options)	Searchable		Full-Record Display
Description (text)			Full-Record Display
Images	Restrictions		Full-Record Display
Measured drawings (image files)			Full-record display
Summary of full report			Full-record display
Full Report (pdf)			Full-record access
Images			Full-record display

USERS [Separate table or database]

Membership number
 Name
 First
 Middle
 Last
 Jr. or Sr.?
 Contact 1
 Contact 2
 School or organization affiliation
 Permission Level

A **Visitor** is to be able to search the database records through certain searchable fields. The results of the search are to be displayed on the page as a list of records and predetermined significant fields. The visitor is to be able to select any record for a full record display page. The content of the display page is to be pulled from various fields in the record. To allow the visitor to have numerous records displayed simultaneously each record should be displayed on its own page in a newly opened window. This will also allow the visitor to return to a new search while leaving record display pages open.

A **Documenter** is to be able to create new records and enter content into predefined fields.

An **Administrator** is to be able to add, remove, and edit the content of any fields in the database, including users.

In addition to the three user-interfaces, a fourth type of user, the **database manager** is to be provided with easily understood instructions for making any and all changes to the database. Initially, the contracted developers can be assigned management tasks, but eventually there should be means for passing on the tasks to others.

HTML USER-INTERFACES

Interface 1

User: Member

Purposes: Registration, log-in, record search, search results display, selection of records for full display,

Permission level: 1 (Member),

Functions: Page 1 Search for records through predefined fields, submit recommendations for survey.
 Display records from search results (same page)
 Page 2 (Opens in new window) Full-record display w/ content generated from database fields

Interface 2

User: Documenter

Purposes: submit records, suggest content and edits.

Permission level: 1 (Member), 2 (Documenter)

User: Reviewer

Purposes: Receive submitted records and content. Review submissions and send requests to Administrator.

Permission level: 1 (Member), 2 (Documenter), 3 (Reviewer)

Interface 3

User: Administrator

Purposes: Receive Reviewer requests, approve or deny, execute creation of new records, additions and edits.

Permission level: 4 (Administrator)