

## Project 2 Online Catalog Rationale

### Form Validation

**Add Page** The add form requires that users fill out all fields of the form using php. User input is checked using regular expressions and php functions for each input. Specifically,

- Title : use of only letters, dashes, apostrophes; 50 character limit
- Artist : use of only letters, dashes, apostrophes; 50 character limit
- Date : use of only four digits in the range of 1500 - 2017
- Country : use of only letters, dashes, apostrophes; 80 character limit (no country is longer than 80)
- Image Link : valid url was checked by php function FILTER\_VALIDATE\_URL.

**Search Page** The search form allows users to search with multiple fields or by one field. It is enforced that users fill out at least one field. User input is checked using regular expressions and php functions for each input. Specifically,

- Title : use of only letters, dashes, apostrophes; 50 character limit
- Date : use of only four digits in the range of 1500 - 2017.

### Justification of Data Types

Special characters were not allowed for entry names because usual print names don't contain them. No alphabetic characters were allowed in the date fields (year only) as dates of prints can be difficult to find. Duplicate titles were allowed as many prints don't have official names/are untitled, so refusing duplicate titles would take away from user experience (however checking for duplicate titles could be implemented very similarly to the "search" php with a flag telling whether there is a match already in data.txt).

### Example Search Results

Title: Boboo (match)

Title: Boboo

Date: 1800 (no match)

Prints Collection  
Search for a print

Home  
Search  
Add

Print Title  
\_\_\_\_\_

Date  
Year Only (Ex. 1990)  
\_\_\_\_\_

Search

Filtered results below



Boboo

Prints Collection  
Search for a print

Home  
Search  
Add

Print Title  
\_\_\_\_\_

Date  
Year Only (Ex. 1990)  
\_\_\_\_\_

Search

Filtered results below

No found matches

The search form allows users to search with multiple fields or by one field. It is enforced that users fill out at least one field. This was implemented to give the most flexibility to users of whether they want to filter results by year, title, or both.

### **Design Decisions and Notes**

#### *Includes PHP functionality for sorting entries*

All entries were read from the data.txt file and stored in an associative array. The PHP functionality for searching could then look for entries based on the keys of the array ('title', 'year', 'artist', 'country', 'imageLink').

#### *PHP functionality for return of search terms*

Entries that match a user's input are displayed in a table below the search form with scrolling capabilities (if there is an overflow of matched entries). The display mirrors the Home page format. If the search doesn't return any matches, the user is told that there were no found matches.

#### *Makes use of nontrivial Javascript or PHP*

Image uploads were handled through PHP. User supplied links were first validated through PHP and then displayed using PHP to create a table of elements. Added entries are automatically added to the home page (scroll if there is overflow). JQuery was used when users hover over an image, a description scrolls down and opacity of the image was decreased so users could more easily read the description. I kept trying to get jquery to underline the current page in navigation bar— instead, I embedded styles instead within html in order to reflect what page the user is currently on in the navigation bar.

#### *Notes*

The image source for MACHINES is still given to assets because specific image cropping was necessary. The source for the image is <https://www.behance.net/gallery/18336973/MACHINES-Kult-Magazine-issue-15>. Note, the artist was still given credit. For all other prints and user added entries, images are credited in the description via the 'Image Link' input.