Keywords

Keywords structure

* In Lightroom:
  + [\_xxx] : Group, don’t export with photo
  + [.xxx] : Subgroup, don’t export with photo
  + .xxx : Subgroup, export with photo
* Family Members:
  + first names only
  + couples: Name/Name
  + in subgroup Jim or Julia
* Friends:
  + Lastname-Firstname
  + Couples: Lastname-Name/Name
* Locations:
  + States are subgroups but not prefaced with period (.)
  + States are two capital letters

Keyword Changes

* Add keyword group/subgroup
  + Enter manually in phpMyAdmin
* Add keyword
  + Enter manually in phpMyAdmin
  + Enter when found in new JPEG (could be confused with changed keyword)
  + Keyword not found - ask user what to do (update existing keyword or add)
* Change keyword text
  + Change manually in phpMyAdmin
    - newly uploaded photos will match new spelling
    - previously uploaded photos will still have correct KeywordID
  + Keyword not found - ask user what to do (update existing keyword or add new keyword)
* Delete keyword
  + Verify it’s not used in any photo otherwise reject deletion

Determine if New Keyword Subgroup (Search Page)

* End of Subgroup (new\_subgroup <> current\_subgroup)
  + New Subgroup
    - tab level > 1 && new\_subgroup <> NULL (all subgroups are at tab level 1)
  + Just a Keyword directly under Group
    - tab level == 1
  + New Group
    - new\_group <> current\_group, subgroup == NULL, tab level == 1

Prepare Photos

* Delete bad photos, duplicates, etc
* Geotag if GPS track is available
* Develop photos in Lightroom
* Annotate Photos:
  + Title - photo specific description
  + Caption - trip/event description
  + Keywords - people, location, event
  + Date/time if not accurate in photo
* Export photos as JPEG

Image Processing

PHP – Imagick, Image Magic

<https://stackoverflow.com/questions/3614925/remove-exif-data-from-jpg-using-php>

<https://www.php.net/manual/en/book.imagick.php>

Pages

Common to All Pages

* Top Menu:
  + Click on *Home* – link to Home page
  + Click on *Folder* – link to Folder browser page.
  + Click on *Search* – link to Search page
  + Click on *Upload* – link to Upload page

Home Page

* Inputs for initial page display
  + 20 random photos
* Initial page display & page refresh
  + Display 20 photos randomly selected -OR-
  + Disply eoungh photos to fill viewport
* Hover on photo
  + Display photo title & date
* Click on photo
  + Create a collection of all photos in the folder of the clicked photo
  + Pass collection to Photo page
  + Display Photo page with clicked photo
  + Next/Prev buttons navigate collection in date order

Folder Browser Page

* Inputs for initial page display
  + Info from Folder table for all folders in db
    - JS 🡪 send request for folder list
    - PHP 🡪 query db for info an all folders
    - PHP 🡪 format db result into HTML
* Initial page display & page refresh
  + Display card list of all folders in db sorted by date, seperated by year
* Click on folder card
  + Create collection of all photos in selected folder
  + Pass collection Gallery page
  + Display collection in date order

Gallery Page

* Inputs for initial page display
  + Collection of photos
* Initial page display & page refresh
  + Display collection of photos sorted by date ascending
  + Photo title below photo
* Hover over photo
  + Highlight photo border
* Click on photo
  + Pass collection to Photo page
  + Display Photo page with clicked photo
  + Next/Prev buttons navigate collection in date order

Search Page

* Inputs for initial page display
  + List of all keywords in db
* Initial page display & page refresh
  + Input fields for Start Date, End Date, Title/Caption words
* Click a keyword button
  + Highlight button to show selecetd
  + Add keyword value to search criteria list
* Click *Search* button
  + Create collection based on search criteria
  + Pass collection Gallery page
  + Display collection in date order

Photo Page

* Inputs for initial page display
  + Collection of photos
  + Initial photo to display
* Click photo
  + Display photo details from EXIF/IPTC metadata
* Click *Next* button
  + Display next photo in collection
* Click *Prev* button
  + Display previous photo in collection

Utilities Page

* Read keywords file from LR and replace contents of Keyword, Group, Subgroup tables
* Create tables
* Rebuild database. Accept Photos folder as the input.

**Upload Workfllow**

1. Individual Photos
   1. get list of existing folders from server
   2. get folder for upload into
      1. existing folder is selescted
      2. new folder is selected
         1. get folder info
         2. send folder info to server
         3. server creates new folder
   3. extract EXIF data from each photo
   4. for each JPEG: *Upload Photo to Server*
2. Folder of Photos
   1. If folder already exists on server
      1. verify users wants to use folder and overwrite any duplicate files
      2. for each JPEG: *Upload Photo to Server*
   2. If folder doesn’t exist on server
      1. get folder metadat from user
         1. folder name
         2. start date
         3. countries
         4. states
         5. locations
         6. description
      2. send folder meta data to server
      3. create new record in Folder table
   3. for each JPEG: *Upload Photo to Server*

**Upload Photo to Server**

1. extract EXIF data from each photo
2. for each JPEG: send metadata to server
   1. file name
   2. folder name
   3. EXIF data
3. create new record in Photo table
4. for each JPEG: send file to server
5. extract Keywords from each photo
6. for each JPEG send keywords to server
   1. create new record in PhotoKeyword table
   2. match keyword text in JPEG with keyword text in Keyword table