Company:

Author:

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Confidentiality

This document contains information that regards as confidential. This information is provided on the understanding that it will not be disclosed to other parties without the prior written consent of .

Amendment History

| Version | Date | Amendment | Author |
| --- | --- | --- | --- |
| 0.1 | 12-Apr-2011 | Initial version | Thanh Ba nguyen |
| 0.2 | 05-May-2011 | Update with Lars’ feedback | Thanh Ba Nguyen |
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# Introduction

## Purpose

This document formalizes the requirements for the project.

## Document Conventions

Each requirement is associated with a priority “low”, ”medium” or “high”. All requirements, by default, have priority “high”.

Overview about is presented in the first part of the document, and then all features and functions are analyzed in detail latter.

## Intended Audience and Reading Suggestions

This document is intended for:

* **Development team**: in order to be sure they are developing the right project that fulfills requirements described in this document.
* **Project Owner/Stakeholder**: to ensure the project is correct.

## References

N/A

## Terminology

|  |  |
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# Overview

is a website that allows its users to upload and share video clips online. Only registered members of the website are allowed to upload and share video clips.

Each video clip has a title text, a short description, a list of tags, and also a thumbnail, which is an image of size 300x300.

A video clip can be assigned to zero, one or more albums. An album, in turn, has a title text, a short description and a thumbnail, which is by default the thumbnail of the first video clip of the album.

# Product Features/Requirements

## General Requirements

**Programming Method:**

* OOP with PHP 5
* All code is built as Classes & Methods.
* Everything (code: Classes & Methods) which is important must be commented, following phpDoc standard.
* Separated language file(s), i.e. no hard-code language text.

**HTML/JS and Libraries:**

* Template engine: Smarty.
* JS: use jQuery whenever possible.
* Layout/GUI: minimum or no graphics, just simple CSS-based (X)HTML.
* Avoid using heavy PHP frameworks (library such as PEAR DB can be used).

## Home page

**Description:**

The website has a simple homepage:

* If the user is not logged in, the home page has 2 links: **Sign Up** and **Login**.
* If the user is logged in, redirect the user to the User’s Home page.

**Wireframe:**

Below is the sample UI of the page:



**Business rules:**

* Clicking on the Signup link will bring the user to Membership Signup page.
* Clicking on the Login link will bring the user to the Member Login page.

## Membership Signup page

**Description:**

This page allows user to register a membership account at the website. In order to signup, user needs to provide his/her full name, email address and a password for his/her account. Also, user must agree to website’s Terms of Service in order to signup.

**Wireframe:**

Below is the sample UI of the page:

*(signup form)*



*(after signup: “thank you” page)*



**Business rules:**

* Full name must not be empty.
* Email must not be empty, and must be unique. I.e. if the email already existed in the system, the system must display an error message and does not allow user to register.
* The two passwords must not be empty and must match each other.
* User must tick the checkbox to agree with website’s Terms of service.
* Clicking on the “Terms of Service” link will open the Terms of Service page
  + Best is to display the “Terms of Service” as a “shadowbox” using jQuery.
  + Or else, display this page as a popup dialog
  + Separate the content of the “Terms of Service” so that it is easy to be changed/updated latter.
* Click on the “Signup” button will submit the form
  + The system must validate the input against the rules above.
  + If validation fails, the system must display appropriate error messages, and asks user to re-enter data.
  + If validation passes, the system must:
    - Create a new user account
    - Send an email to user’s email address. The email address should contain the URL of the website, the username and the password. Also, the system should separate the content of the in the way that it is easy to be updated/changed latter.
    - Display the “thank you” page.
* On the “thank you” page, clicking on the “Login” link will bring user to the Member Login page.

## Member Login page

**Description:**

This page lets user login to the system. In order to login, user must supply the signed up email and password.

**Wireframe:**

Below is the sample UI of the page:



**Business rules:**

* Email and Password must exist in the system and match.
* Clicking on the “Login” button will submit the form
  + The system must validate the input against the rules above.
  + If validation fails, the system must display appropriate error messages, and asks user to re-enter data.
  + If validation passes, the system must:
    - Log user in
    - Brings user to the User’s Home page.
  + Clicking on the “Forgot your password?” link will bring user to Forgot Password page.

## Forgot Password page

**Description:**

This page lets user login to the system. In order to login, user must supply the signed up email and password.

**Wireframe:**

Below is the sample UI of the page:

*(forgot password form)*



*(after submit successfully)*



**Business rules:**

* Email must exist in the system.
* Clicking on the “Help Me” button will submit the form
  + The system must validate the input against the rules above.
  + If validation fails, the system must display appropriate error messages, and asks user to re-enter data.
  + If validation passes, the system must:
    - Display a message saying that a link has been sent to the email (see above).
    - Create a password reset link and sent to the email address. the system should separate the content of the in the way that it is easy to be updated/changed latter
* When user clicks on the password reset link (in the email), the system brings user to the Reset Password page.

## Reset Password page

**Description:**

This page lets user choose another password. It is only displayed with a valid password reset link.

**Wireframe:**

Below is the sample UI of the page:

*(when a valid password reset link is clicked)*



*(when an invalid password reset link is clicked)*



*(after the password is reset successfully)*



**Business rules:**

* If an invalid password reset link is opened, the system must display the error message (see above).
  + Clicking on the “Try again” link will bring user to the Forgot Password page.
* Password must not be empty.
* Clicking on the “Save” button will submit the form
  + The system must validate the input against the rules above.
  + If validation fails, the system must display appropriate error messages, and asks user to re-enter data.
  + If validation passes, the system must:
    - Save the new password to user account.
    - Invalidate the password reset link (i.e. make it invalid so that user can not open it again).
    - Display a message saying that the password has been reset (see above).
* When user clicks on the “Login” link (after password has been reset successfully), system brings user to the Member Login page.

## User’s Home page

**Description:**

This is the home page of user (when user has logged in). It should link to other user’s pages, and also contain a link to let user logout of the system.

**Wireframe:**

Below is the sample UI of the page:



**Business rules:**

* Top-left corner is the user’s portrait (a.k.a. avatar).
  + If the user does not have a portrait, display a default/blank image.
  + Clicking on the portrait will bring user to the User’s Home page.
* Across the top is a summary:
  + How many video clips the user currently has. Clicking on it will bring user to Video List page.
  + How many albums the user currently has. Clicking on it will bring user to Album List page.
* At the middle is user’s 5 latest video clips (display as thumbnails):
  + Clicking on each video thumbnail will open the View Video page.
  + Clicking on the “See all” link will bring user to the Video List page.
* On the left is the menu bar.
  + The “Log out” link will log the user out of the system and bring user to the Home page.

## User’s Personal Info page

**Description:**

This page allows user to update his/her personal information.

**Wireframe:**

Below is the sample UI of the page:

(*before form submission*)



(*after form submission*)



**Business rules:**

* Top-left corner & Left menu bar: see User’s Home page section
* On the right, display a small box with help text: “*Update your personal info to give users a better idea of who you are, and what you are all about.*”
* Full name must not be empty!
* Website URL optional
* The system displays user’s email address but does NOT allow user to change it.
* Clicking on the “Save” button will submit the form.
  + The system must validate the input against the rules above.
  + If validation fails, the system must display appropriate error messages, and asks user to re-enter data.
  + If validation passes, the system must:
    - Save the user’s personal info
    - Display a message saying that the info has been saved (see above).

## User’s Portrait page

**Description:**

This page allows user to update his/her portrait (avatar) image.

**Wireframe:**

Below is the sample UI of the page:

(*before form submission*)



(*after form submission*)



**Business rules:**

* Top-left corner & Left menu bar: see User’s Home page section
* On the right, display a small box with help text: “*Upload a portrait of yourself (some people call them avatars) so everyone can see who you are and recognize your beautiful face when you use <website name>. To avoid cropping, we recommend making your portrait 300x300.*”
* Supported image type: GIF, PNG and JPEG
* File size upload limit: 5Mb
* If there is no current portrait, display a default/blank image
* When user uploads a new portrait file, the system must validate the uploaded file against the rules above.
  + If validation fails, the system must display appropriate error messages.
  + If validation passes, the system must:
    - Resize the uploaded image to 300x300
    - Save (and override the existing) the user’s portrait
    - Display a message saying that the portrait has been updated (see above).
  + Note: if the validation fails (or the uploaded file is not a valid image), the system must keep the current portrait unchanged

## User’s Password page

**Description:**

This page allows user to change his/her account’s password.

**Wireframe:**

Below is the sample UI of the page:

(*before form submission*)



(*after form submission*)



**Business rules:**

* Top-left corner & Left menu bar: see User’s Home page section
* On the right, display a small box with help text: “*Use this page to change your account’s password*”
* Current Password must match
* New Password & Retype New Password must not be empty and match each other
* Clicking on the “Save” button will submit the form. The system must validate the uploaded file against the rules above.
  + If validation fails, the system must display appropriate error messages.
  + If validation passes, the system must:
    - Update and save user’s password
    - Display a message saying that the password has been updated (see above).
  + Note: if the validation fails, the system must keep the current password unchanged

## User’s Shortcut URL page

**Description:**

This page allows user to choose or update his/her profile’s shortcut URL. By default, each user’s profile page can be accessed via the url <http://domain.com/user1234> (where 1234 is the user’s id). The system allows the user to change his/her default profile’s url, e.g. <http://domain.com/nbthanh>.

When the user’s profile URL is access, the system displays the User’s Profile page.

**Wireframe:**

Below is the sample UI of the page:

(*before form submission*)



(*after form submission*)



**Business rules:**

* Top-left corner & Left menu bar: see User’s Home page section
* On the right, display a small box with help text: “*Create a shortcut url to make it easy for people to remember your profile URL. We recommend using a shortcut that is similar to your name on <website name>. But you can use whatever works for you!*”
* Shortcut rules:
  + Max 16 characters
  + Contains only lower-cased letters (a-z) and digits (0-9)
  + Must start with a letter (e.g. 0abc is invalid!)
  + If empty, the default value is used (e.g. user1234, where 1234 is the user’s id)
  + **Non-allowed** values:
    - Any value in format user1234 (regular expression: **user\d+**); unless 1234 is the ID of the current user
    - Any existing shortcuts (e.g. if another user already chose nbthanh, the current user can not choose that shortcut again)
    - Any reserved values (the system may reserve some value for its own use, for example <http://domain.com/upload>)
* Clicking on the “Save” button will submit the form. The system must validate the uploaded file against the rules above.
  + If validation fails, the system must display appropriate error messages.
  + If validation passes, the system must:
    - Save the new user’s profile’s shortcut url
    - Display a message saying that the shortcut url has been updated (see above).
  + Note: if the validation fails, the system must keep the current shortcut url unchanged

## User’s Profile page

**Description:**

This page displays user’s *public* profile.

**Wireframe:**

Below is the sample UI of the page:



**Business rules:**

* Currently, the system should only display a very simple profile page with only user’s portrait.
* Note: this page display a specific user’s profile, *not the current user’s profile*.

## Video Upload page (UPDATED)

**Description:**

This page allows user to upload a new video clip.

**Wireframe:**

Below is the sample UI of the page:



**Business rules:**

General rules:

* Top-left corner & Left menu bar: see User’s Home page section.
* On the right, display a small box with help text: “*Upload ONLY videos you create and have the necessary permissions to upload. Do Not Upload Videos Intended for Commercial use.*”
* Limit the upload file size to 1Gb.
* After the user has uploaded the video file, the system bring user back to the Video List page.
* Video upload should have a progress bar (it must work on popular modem browsers).

## Video List page (UPDATED)

**Description:**

This page lists all video clips that a user has uploaded. This list should support paging, sorting, filter and page size.

There are also 2 display modes for this view:

* Thumbnail mode: video clips are display as thumbnails.
* Detail mode: similar as thumbnail modes but for each video, other information will also be displayed.

**Wireframe:**

Below is the sample UI of the page:

(*thumbnail mode*)



(*detail mode*)



**Business rules:**

General rules:

* Top-left corner & Left menu bar: see User’s Home page section.
  + If the current user is NOT owner of the album: do not display the left menu bar.
* Sort modes:
  + **Newest**: newest video first
  + **Oldest**: oldest video first
  + **Most Played**: video with highest number played times first
  + **Most Commented**: video with highest number comments first
  + **Most Liked**: video with highest number “like” first
  + **Alphabetical**: sorted video by title (‘A’ first, ‘Z’ last)
* Display modes:
  + **Thumbnail**: videos are display as thumbnails and titles
  + **Detail**: similar to thumbnail mode but with more information.
* Page size:
  + **10**: display 10 items per page.
  + **25**: display 25 items per page.
  + **50**: display 50 items per page.
  + **All**: display all items (one page).
* Paging: both thumbnail and detail modes must support paging (with page size defined as above)
* Search:
  + User can enter a search term to filter the videos.
  + Search is done against video’s title and description.
* All the setting values (sorting, display mode, page size and search term) must be remembered. I.e. when user goes out and gets back to the page, all settings are kept.

Thumbnail mode:

* Videos are display as thumbnails
* Video’s title is displayed together with the video thumbnail
* Clicking on the video will bring user to the View Video page.

Detail mode:

* Videos are display as thumbnails
* Video’s title is displayed together with the video thumbnail
* Other information to be displayed:
  + Timestamp when the video is uploaded (e.g. “11 days ago”)
  + Statistics: number of plays, ~~number of comments, number of “likes”~~ (not needed)
  + List of tags associated with the video
  + The album to which the video belongs (if any).
    - Clicking on the album title will bring user to the View Album page.
* Clicking on the video will bring user to the View Video page.

## View Video page

**Description:**

This page displays a single video in “view” mode.

**Wireframe:**

Below is the sample UI of the page:



**Business rules:**

* Currently the system only displays a very simple information page about the video, such as video’s title, owner, tags and statistics.
* If the current user IS the owner of the video, two links “Settings“ and “Delete” are displayed.
  + Clicking on the “Settings” link will bring user to the Video Setting page.
  + Clicking on the “Delete” link will bring user to the Delete Video page.

## Video Setting page

**Description:**

This page allows user to change/update his video’s basic info.

**Wireframe:**

Below is the sample UI of the page:

(*before form submission*)



(*after form submission*)



**Business rules:**

* Top left corner: the video’s thumbnail (or a blank/default image if the video has no thumbnail).
* Left: the menu bar
  + Basic Info: the current page.
  + Thumbnail: will bring user to the Video Thumbnail page.
  + Video file: will bring user to the Video File page.
  + Custom URL: will bring user to the Video Custom URL page.
  + Add to: will bring user to the Video Add To page.
  + Delete Video: will bring user to the Delete Video page.
  + Back to Video: will bring user to the View Video page.
* Tags are separated by commas (,).
* Clicking on the “Save” button will submit the form.
  + The system must validate the input against the rules above.
  + If validation fails, the system must display appropriate error messages, and asks user to re-enter data.
  + If validation passes, the system must:
    - Save the video info.
    - Display a message saying that the video info has been saved (see above)

## Video Thumbnail page (UPDATED)

**Description:**

This page allows user to update his/her video’s thumbnail image.

**Wireframe:**

Below is the sample UI of the page:

(*before form submission*)



(*after form submission*)



**Business rules:**

* Top-left corner & Left menu bar: see Video Setting page section
* On the right, display a small box with help text: “*You can upload an image as the video's thumbnail. To avoid cropping, we recommend making your portrait 300x300.*”
* Supported image type: GIF, PNG and JPEG
* File size upload limit: 10Mb
* If there is no current thumbnail, display a default/blank image
* When user uploads a new thumbnail file, the system must validate the uploaded file against the rules above.
  + If validation fails, the system must display appropriate error messages.
  + If validation passes, the system must:
    - Resize the uploaded image to 300x300
    - Save (and override the existing) the video’s thumbnail
    - Display a message saying that the thumbnail has been updated (see above).
  + Note: if the validation fails (or the uploaded file is not a valid image), the system must keep the current thumbnail unchanged
* Note: the system should also allow user to select a frame (or a scene taken from the video) from the video to be the thumbnail. List of the frames/scenes are displayed and user can click on one to choose.

## Video File page (UPDATED)

**Description:**

This page allows user to upload another video file to replace the current one.

**Wireframe:**

Below is the sample UI of the page:

(*before form submission*)



(*after form submission*)



**Business rules:**

* Top-left corner & Left menu bar: see Video Setting page section
* On the right, display a small box with help text: “*Upload ONLY videos you create and have the necessary permissions to upload. Do Not Upload Videos Intended for Commercial use.*”
* Limit the upload file size to 1Gb.
* After the user has uploaded the video file, the system displays a message saying the video file has been replaced (see above).
* Video upload should have a progress bar (it must work on popular modem browsers).

## Video Pre-roll and Post-roll (NEW)

**Description:**

This page allows user to select the video as a pre-roll and/or a post-roll.

A pre-roll video will be randomly selected from all pre-roll videos, and will be showed BEFORE a normal video (video which is NOT selected as pre/post roll).

A post-roll video will be randomly selected from all post-roll videos, and will be showed AFTER a normal video (video which is NOT selected as pre/post roll).

Note: a video can be both pre-roll and post-roll.

**Wireframe:**

Below is the sample UI of the page:

//TODO: to be update

(A screen like the Video Setting page, with two check boxes: post-roll, pre-roll)

**Business Rules:**

//TODO: to be update

## Video Add To page

**Description:**

This page allows user to add the video to album.

**Wireframe:**

Below is the sample UI of the page:

Note: the sample UI is just a suggested traditional Web-UI. Developers feel free to use jQuery to implement the UI in AJAX way.

(*before form submission*)



(*after form submission*)



**Business rules:**

* Top-left corner & Left menu bar: see Video Setting page section
* On the right, display a small box with help text: “*Check the boxes to add this video to any albums that you have. Adding videos to an Album can help organize your videos and the videos you like.*”
* A video can be assigned to zero, one or more albums.

## Video Custom URL page

**Description:**

This page allows user to choose or update his/her video’s custom URL. By default, each video can be accessed via the url <http://domain.com/5678> (where 5678 is the video’s id). The system allows the user to change his/her video’s url, e.g. <http://domain.com/nbthanh/fanxipan/>.

When the video’s custom URL is access, the system displays the View Video page.

*Note:* if the custom url is set, the video can be access by both urls: <http://domain.com/5678> and <http://domain.com/nbthanh/fanxipan>

If not, the video can be access only by <http://domain.com/5678/>.

**Wireframe:**

Below is the sample UI of the page:

(*empty/no custom url*)



(*has custom url*)



(*after form submission*)



**Business rules:**

* Top-left corner & Left menu bar: see Video Setting page section
* On the right, display a small box with help text: “*Customize your video URL to make sharing and remembering your videos easy and personal! Please use only latin alphabet and numbers.*”
* Custom url rules:
  + Max 32 characters
  + Contains only lower-cased letters (a-z) and digits (0-9)
    - If *not empty*, the preview url will be: <http://domain.com/nbthanh/fanxipan> where ***nbthanh*** is the user’s shortcut name; and ***fanxipan*** is the custom url value. If the user has not set his/her shortcut url, the preview url will be <http://domain.com/user1234/fanxipan> where 1234 is the user’s id (see section User’s Shortcut URL page for more details).
    - If *empty*, the preview url will be: <http://domain.com/5678> where 5678 is the video’s id.
  + If empty, the default value is used (e.g. user1234, where 1234 is the user’s id).
  + Must be unique per user. Which means:
    - No duplicate custom url for one user.
    - The same name can be used for 2 different users, e.g. <http://domain.com/nbthanh/fanxipan> and <http://domain.com/thanhtom/fanxipan> can exist at the same time
* Clicking on the “Save” button will submit the form. The system must validate the uploaded file against the rules above.
  + If validation fails, the system must display appropriate error messages.
  + If validation passes, the system must:
    - Save the new video’s custom url
    - Display a message saying that the custom url has been updated (see above).
  + Note: if the validation fails, the system must keep the current custom url unchanged

## Delete Video page

**Description:**

This page allows user to delete his/her own video.

**Wireframe:**

Below is the sample UI of the page:



**Business rules:**

* The system display a confirmation dialog with a question “*Are you sure you want to delete the following video?*” and a “Yes” button and a “No” button.
* Also, brief information about the video is displayed.
* If user clicks “No” button, the system brings user back to the View Video page.
* If user clicks “Yes” button, the system:
  + Deletes the video and all its associated information (thumbnail, comments, likes, etc)
  + Brings user back to the Video List page.

## Album List page

**Description:**

This page lists all albums that a user has created. This list should support paging, sorting, filter and page size.

**Wireframe:**

Below is the sample UI of the page:



**Business rules:**

* Top-left corner & Left menu bar: see User’s Home page section.
* Clicking on the “Create New Album” link will bring user to the //TODO.
* Sort modes (album’s timestamp = latest timestamp when the album is update/modified/created):
  + **Newest**: newest album first (see note regarding album’s timestamp above)
  + **Oldest**: oldest album first (see note regarding album’s timestamp above)
  + **Alphabetical**: sorted albums by title (‘A’ first, ‘Z’ last)
* Page size:
  + **10**: display 10 items per page.
  + **25**: display 25 items per page.
  + **50**: display 50 items per page.
  + **All**: display all items (one page).
* Paging: with page size defined as above
* Search:
  + User can enter a search term to filter the albums.
  + Search is done against album’s title and description.
* All the setting values (sorting, page size and search term) must be remembered. I.e. when user goes out and gets back to the page, all settings are kept.
* Clicking on the album’s thumbnail or title will bring user to the View Album page.

## View Album page

**Description:**

This page is similar to the Video List page, with two differences:

* It display only video within a specified album
* It is a public page (can be accessed by everyone)

This list should support paging, sorting, filter and page size.

*Note:* the album can be password protected by the user. If the album is password protected and the current user is NOT the album’s owner, before viewing the album, the system must ask the access password from the user.

**Wireframe:**

Below is the sample UI of the page:

(*ask for password if album is password protected*)



(*if the password is incorrect*)



(*thumbnail mode*)



(*detail mode*)



**Business rules:**

General rules:

* If the album is password protected and the current user is NOT the album’s owner, display a dialog box to ask for password to view the album.
  + If the password is enter correctly, let user view the album
* Top left corner: the album’s owner portrait (or a blank/default image if there is no portrait).
* Left: the menu bar
  + Settings: will bring user to the Album Settings page.
  + Delete Album: will bring user to the Delete Album page.
  + My Albums: will bring user to the Album List page.
  + *Note: If the current user is NOT owner of the album: do not display the left menu bar.*
* Sort: the order of videos within the album is defined by the album’s owner. See section Album Arrange page for more information.
* Display modes:
  + **Thumbnail**: videos are display as thumbnails and titles
  + **Detail**: similar to thumbnail mode but with more information.
* Page size:
  + **10**: display 10 items per page.
  + **25**: display 25 items per page.
  + **50**: display 50 items per page.
  + **All**: display all items (one page).
* Paging: both thumbnail and detail modes must support paging (with page size defined as above)
* Search:
  + User can enter a search term to filter the videos.
  + Search is done against video’s title and description.
* All the setting values (sorting, display mode, page size and search term) must be remembered. I.e. when user goes out and gets back to the page, all settings are kept.

Thumbnail mode:

* Videos are display as thumbnails
* Video’s title is displayed together with the video thumbnail
* Clicking on the video will bring user to the View Video page.

Detail mode:

* Videos are display as thumbnails
* Video’s title is displayed together with the video thumbnail
* Other information to be displayed:
  + Timestamp when the video is uploaded (e.g. “11 days ago”)
  + Statistics: number of plays, number of comments, number of “likes”
  + List of tags associated with the video
  + The album to which the video belongs (if any).
    - Clicking on the album title will bring user to the View Album page.
* Clicking on the video will bring user to the View Video page.

## Album Settings page

**Description:**

This page allows user to change/update his album’s basic info.

**Wireframe:**

Below is the sample UI of the page:

(*before form submission*)



(*after form submission*)



**Business rules:**

* Top left corner: the album’s thumbnail (or a blank/default image if the album has no thumbnail).
* Left: the menu bar
  + Basic Info: the current page.
  + Thumbnail: will bring user to the Album Thumbnail page.
  + Arrange: will bring user to the Album Arrange page.
  + Password: will bring user to the Album Password page.
  + Delete Album: will bring user to the Delete Album page.
  + Back to Album: will bring user to the View Album page.
  + My Albums: will bring user to the Album List page.
* Clicking on the “Save” button will submit the form.
  + The system must validate the input against the rules above.
  + If validation fails, the system must display appropriate error messages, and asks user to re-enter data.
  + If validation passes, the system must:
    - Save the album info.
    - Display a message saying that the album info has been saved (see above)

## Album Thumbnail page

**Description:**

This page allows user to change/update his album’s thumbnail. Album’s thumbnail is thumbnail of a video within the album. The default thumbnail is the thumbnail of the video at the number ‘1’ position.

Note: If album is currently has 0 video, and user uploads a video: make that video’s thumbnail as the album’s thumbnail.

Note: If the user change thumbnail of the ‘thumbnail’ video: update the album’s thumbnail too.

Note: If the user deletes or removes the ‘thumbnail’ video from the album: choose the video at the number ‘1’ position to be the ‘thumbnail’ video of the album.

Video’s position: see section Album Arrange page for more info.

**Wireframe:**

Below is the sample UI of the page:

(*if album has no video*)



(*before form submission*)



(*after form submission*)



**Business rules:**

* Top left corner & Left menu bar: see Album Settings page.
* On the right, display a small box with help text: “*The default thumbnail for your album is the thumbnail of the video in the number '1' position in your album. Choose another one to change the album's thumbnail.*”
* The system displays thumbnails of all videos within the album in order and lets user choose one video to be the album’s ‘thumbnail’ video.
  + Video order: see section Album Arrange page for more detail.
* Clicking on the “Save” button will submit the form.
  + The system must validate the input against the rules above.
  + If validation fails, the system must display appropriate error messages, and asks user to re-enter data.
  + If validation passes, the system must:
    - Save the album’s thumbnail setting.
    - Display a message saying that the album’s thumbnail has been saved (see above)

## Add Videos to Albums (NEW)

//TODO: Merge this section with

**Description:**

On the , the system provides user another way to add video(s) to album(s) by display the list of available albums (each album is associated with a checkbox) next to each video (detail view mode).

Ticking a checkbox will add the video to the album; and un-ticking a checkbox will remove the video from the album.

Note: use AJAX to implement this function!

**Wireframe:**

//TODO

**Business Rules:**

//TODO

## Album Arrange page

**Description:**

This page allows user to arrange videos within his/her album

**Wireframe:**

Below is the sample UI of the page:

(*if album has no video*)



(*before form submission*)



(*after form submission*)



**Business rules:**

* Top left corner & Left menu bar: see Album Settings page.
* On the right, display a small box with help text: “*Choose an arrange mode to automatically sort videos of the album.*”
* The system displays thumbnails of all videos within the album **in the current order**.
  + AJAX/jQuery: when user pick another sorting mode, the system can rearrange the videos’ thumbnails for previewing purpose.
  + Since it’s for previewing purpose, the system may not need to display all videos’ thumbnails, only first 5 or 10 (in the order) should be sufficient.
* Clicking on the “Save” button will submit the form.
  + The system must validate the input against the rules above.
  + If validation fails, the system must display appropriate error messages, and asks user to re-enter data.
  + If validation passes, the system must:
    - Save the album’s arrangement setting.
    - Display a message saying that the album’s arrangement has been saved (see above)

## Album Password page

**Description:**

This page allows user to protect his/her album with a password. People other than the album’s owner must know the password to view the album.

**Wireframe:**

Below is the sample UI of the page:

(*before form submission*)



(*after form submission*)



**Business rules:**

* Top left corner & Left menu bar: see Album Settings page.
* On the right, display a small box with help text: “*This function allows you to protect your album with a password. Only people that you let them know the password are able to view the album.*”
* If the checkbox is checked, user can enter a password into the text box to project the album. If the checkbox is unchecked, the album is not protected.
  + Note: Display the password when user type it, do not mask it with “\*” characters.
* Clicking on the “Save” button will submit the form.
  + The system must validate the input against the rules above.
  + If validation fails, the system must display appropriate error messages, and asks user to re-enter data.
  + If validation passes, the system must:
    - Save the album’s password setting.
    - Display a message saying that the album’s password has been saved (see above)

## Delete Album page

**Description:**

This page allows user to delete his/her own album. Once the album is delete, all its information (thumbnail, custom url) are deleted. But, the videos within the album must be kept intact (i.e. the videos are NOT deleted)!

**Wireframe:**

Below is the sample UI of the page:



**Business rules:**

* Top left corner & Left menu bar: see Album Settings page.
* On the right, display a small box with help text: “*This function only deletes the album information. Videos within the album will NOT be deleted!*”
* If user clicks the “No” button, bring user to the Album Settings page.
* If user clicks the “Yes” button, the system
  + Deletes the album (thumbnail, custom url, etc), but does NOT delete the videos.
  + Brings user to the Album List page.

## Create Album page

**Description:**

This page allows user to create a new album.

**Wireframe:**

Below is the sample UI of the page:



**Business rules:**

* Top left corner: the user’s portrait (or a blank/default image if the user has no portrait).
* Left: the menu bar
  + My Albums: will bring user to the Album List page.
* If user clicks the “Cancel” button, bring user back to the Album List page.
* If user clicks the “Save” button, the system:
  + Creates a new album
  + Brings user back to the Album List page
* Note: if user does not input the album title, use the default title, which is “Untitled”.

## Album Custom URL page (NEW)

//TODO: to clarify with customer

**Description:**

//TODO: similar to .

This page allows user to choose or update his/her album’s custom URL.

**Wireframe:**

//TODO

**Business Rules:**

//TODO

## Channels (NEW)

//TODO: to clarify with customer

**Description:**

//TODO: similar to Albums, with the only difference: user can create channels, and can add videos to all channels (include channel created by other users). Note: with albums, user can add videos to only his/her own albums.

**Wireframe:**

//TODO

**Business Rules:**

//TODO

## Administrator (NEW)

**Description:**

The system should provide an administration section that allows the site’s administrator to manage the site.

Admin is like a normal user, but on his page, there are two links: **Administer Users**, **Configurations**, and **Pages**.

***User management / Administer Users:***

* Admin can view list of users
* Admin can suspend (ban/disable) an user’s account; admin can also resume (unban) a suspended account
* Admin can delete an user account
* Admin can create a new user account

***Configurations:*** there are two configurations

* Admin can display/hide the login form on the front page
* Admin can disable/enable the sign up function

***Pages (simple CMS):***

* Admin can see list of current pages (with status publish or not)
* Admin can create a new page (HTML, WYSWYG editor)
* Admin can edit an existing page
* Admin can delete an existing page.
* Admin can mark a page as “published” or not
* Note: published pages are listed on the front page, and can be viewed by users.

# Estimations

|  |  |  |  |
| --- | --- | --- | --- |
|  | Feature/Page | Estimate  (days, 8h) | Notes/Comments |
|  |  | 3 | Build a simple custom framework, database design |
|  |  | 0.5 |  |
|  |  | 2.0 |  |
|  |  | 1.0 |  |
|  |  | 1.5 |  |
|  |  | 1.5 |  |
|  |  | 5.0 |  |
|  |  | 1.0 |  |
|  |  | 2.0 |  |
|  |  | 1.0 |  |
|  |  | 1.0 |  |
|  |  | 0.5 |  |
|  |  | 2.5 |  |
|  |  | 5.5 |  |
|  |  | 1.0 |  |
|  |  | 1.0 |  |
|  |  | 2.5 |  |
|  |  | 2.0 |  |
|  |  | 1.0 | This estimation may change when the wireframe is completed |
|  |  | 1.0 |  |
|  |  | 2.0 |  |
|  |  | 0.5 |  |
|  |  | 3.5 |  |
|  |  | 1.5 |  |
|  |  | 1.0 |  |
|  |  | 2.0 |  |
|  |  | 1.5 |  |
|  |  | 2.5 |  |
|  |  | 0.5 |  |
|  |  | 0.5 |  |
|  |  | 1.0 |  |
| 3.32 | Album Custom URL page (NEW) | 1.0 |  |
| 3.33 | Channels (NEW) | 10.0 | Clone all features of album (decreased some reuse coding) |
|  |  | 8.0 |  |
| Total | | 72 |  |