Assignment Web 4

Due Date: November 20

Purpose
Many people, especially old ones like me, still print individual photos and create photo or scrap books. You are part of the web development team at ShutterSnap, a well-known photo print service that sells many custom photo products. You have been charged with implementing their newest version of their web-based custom photo book tool, FunFotos. To create this web app, you will use all of your HTML, CSS, PHP, mySQL, JavaScript, and perhaps AJAX and jQuery knowledge. This means this is a full-stack development project.

You may work on this project in a group of size \( n \), where \( 1 < n \leq 3 \).

Problem
ShutterSnap has many photo services, including simple prints, custom mugs, holiday cards, and so forth. You are to create a web site that includes:

1. the ShutterSnap splash page that shows the various merchandise the company has to offer
2. the FunFotos page that enables users to create a custom photo book

ShutterSnap Page
The splash page should highlight the company’s various custom merchandise, setting the tone for the rest of the website. Each item should have a link to a page devoted to that content. The FunFotos link should bring the user to a new page; all the other links should bring up a page with an internal ShutterSnap message: “In development by other web teams” or the like (because your group is not responsible for everything!).

The link to the FunFotos page, or similar functionality depending on your design, should bring up a login screen. The user must login before entering the FunFotos page. This gives the user access to their own photos.

FunFotos Page(s)
The FunFotos page is the main implementation portion of the project. This page should look more like a web app than a typical web page, but should still have a way to navigate back to the splash page. The main goal of the page is to allow the user to create a custom photo book. This entails showing the current book as well as interaction capability for the user to view and choose other photos from their library (your database). The page should be as dynamic as possible, changing as the user chooses various options; many of these dynamic elements are listed below.

Functionality should include (but is not limited to):

• a button to create the initial default book. This should include an option to choose a subset of photos (probably by date) and also how many photos to put on a page (1, 2, or 3).

• a button to reset/rebuild the default book. This should also have a warning, because this means that the current book is deleted.
• a clear/consistent location to view the current photo book.
• a clear/consistent way to turn the virtual pages of the book.
• a pull-down menu of background color/image options (hard coded) for the current page.
• an user interface (UI) to edit the current book. This should include options to change/delete photos, change the background, change the number of photos on the page, etc.
• a clear/consistent way to view and choose a photo from a set of thumbnails.

You will store your own set of photos in your mySQL database on the server. The metadata for each photo includes at least:

– link to each photo. I suggest storing all of your photos on the server. Then you are guaranteed that they will still be there when it comes time to grade. You can use URLs if you’re confident they won’t change.
– date photo was taken; guaranteed to have this information.
– brief description; not guaranteed that all photos will have this.
– additional items are up to you, but are not required.

Not all metadata should be included in the interface noted above. For example, it is not practical to show all photo descriptions in a dropdown menu. However, the date certainly is a common item to have in such a menu.

• search capability (for the above metadata).
• thumbnails should be dynamically loaded with the set of photos that match the menu choice or search results.
• a non-working link/interface to upload photos.

Note there are many design choices you have to make. For example, what should be shown on the main photo book page before the user has made any choices? What should you do if there are more photos in a category than can fit in the thumbnail section? What should be done if a search fails?

Specifics

• The splash page should follow web page design guidelines. You can look at shutterfly.com, snapfish.com, and the like for inspiration. The design “look and feel” is up to you, but once chosen, should be followed throughout the site.

• The login information should be hard coded at this point. The two users that currently have “accounts” are Joe and Jane. Their passwords are “joe123” and ”jane321,” respectively. Each user should have their own database. You may add additional users if you wish.

• All actions should have good and consistent feedback and/or immediate results. It should be easy for the user to understand the current state of the photo book and what do to next.
• Actions for appropriate options should be smoothly animated. For example, choosing a thumbnail should give some kind of nice feedback/animation, rather than an image simply suddenly appearing.

• The splash page should be stored in index.html in a folder called ShutterSnap. Create a link to this page from your home page(s).

• The FunFotos page should be named FunFotos.html and be stored in the ShutterSnap folder.

• CSS, PHP, js, images, etc. should be stored in appropriate folders/files. The site should be well organized.

• Build your web pages with HTML5 and CSS. CSS rules should be stored in an external style sheet.

• Functionality is to be provided with JavaScript/jQuery and PHP. Store code in an external file(s).

• The mySQL database must be used to store image URLs/links and metadata. You will need at least two tables: one for your image database, and one for the photo book you are creating. You are free to add more tables, as you could store multiple photo books, for example.

• Plugins are allowed.

• Use proper JavaScript/jQuery event handler conventions.

Notes
Joe’s photos should include a good set of the images and metadata available on my Anti-Research page. Jane’s photos and metadata are up to you. Don’t go crazy with quantity for the latter.

Much of the grade will depend on: Does it work? However, a well-designed page is also essential. Adding extra functionality or exceptional execution of the site will give you more points in the usual “creativity” section.

Upload all of your web pages to the server before 11:59:59 PM on the due date. No hard copy is necessary.

If your words or images are not on point, making them dance in color won’t make them relevant.
– Edward Tufte