Programming Assignment 6

Due Nov 10, 2020 by 11:59pm   **Points** 100   **Submitting** a file upload   **Available** until Nov 14, 2020 at 11:59pm

This assignment was locked Nov 14, 2020 at 11:59pm.

Using Cloud Storage

Description

The goal of this project is to develop a photo-album application that uses cloud storage. More specifically, you will use the Dropbox API to create a photo album, in which you can upload, delete, and browse photographs.

This project must be done individually. No copying is permitted. **Note: We will use a system for detecting software plagiarism, called [Moss (http://theory.stanford.edu/~aiken/moss/)](http://theory.stanford.edu/~aiken/moss/) , which is an automatic system for determining the similarity of programs.** That is, your program will be compared with the programs of the other students in class as well as with the programs submitted in previous years. This program will find similarities even if you rename variables, move code, change code structure, etc.

Note that, if you use a Search Engine to find similar programs on the web, we will find these programs too. So don't do it because you will get caught and you will get an F in the course (this is cheating). Don't look for code to use for your project on the web or from other students (current or past). Just do your project alone using the help given in this project description and from your instructor and GTA only.

Platform

You will develop this project on your PC/laptop using XAMPP and you will test it using your Firefox web browser. Download **[project6.zip](https://uta.instructure.com/courses/57979/files/10542696/download?download_frd=1)** ↓ **(https://uta.instructure.com/courses/57979/files/10542696/download?download_frd=1)** and unzip the files inside your web server document root directory.

Documentation

This project must be done in PHP. Please look at Project 4 for links to PHP tutorials. Your scripts must use the **Dropbox API (https://www.dropbox.com/developers/apps)** to upload, delete, and retrieve photographs, and the PHP library **DropPHP** **(http://fabi.me/en/php-projects/dropphp-dropbox-api-client/)**. You will first need to **create a Dropbox account** **(https://www.dropbox.com/developers/apps)** and a Dropbox API app with both Files and datastores, which will have the App name: cse5335_xyz1234, where xyz1234 is your NetID. Steps: go to **My apps (https://www.dropbox.com/developers/apps)** and push "Create app". Select "Dropbox API" and "App folder", and name your app "cse5335_xyz1234", where xyz1234 is your NetID. In the Settings tab, add the URL `https://localhost/project6/sample.php?auth_redirect=1` in the Redirect URIs part. You also need to add the `https://localhost/project6/album.php?auth_redirect=1` link later. This page also gives you the App key and App secret (hidden). **In the Permissions tab, select all write permissions.** Then, edit the file `project6/sample.php` and set the `app_key` and `app_secret` to your Dropbox API key and secret. Remove any files inside the tokens directory, if any. You can test your setup on your web browser by using the URL address **http://localhost/project6/sample.php** **(http://localhost/project6/sample.php)**. Note that, if you get a fatal error after "Downloading /leonidas.jpg:", this is OK. You don't need to download any files from Dropbox (you need only the file link from Dropbox given in: "Meta data of /leonidas.jpg:". See my screenshots of my settings: **Screenshot from 2020-11-08 08-41-16.png Screenshot from 2020-11-08 08-41-42.png**

Look at the code in `sample.php.` Your `album.php` must have a similar authentication.

If you have a Mac or Linux PC, edit the line in sample.php and album.php: `$test_file = "/tmp/test_download_" . basename( $file->path )`; because Mac and Linux have permission problems writing on project6 directory.

Project Requirements

You will develop a trivial photo-album application on Dropbox. This project is similar to Project 4 but now you have to use Dropbox to store the photos and you need to be able to delete photos. Your task is to modify your `album.php` script in your `project6` directory to support the following operations:

- Provide a form to upload a new image (a *.jpg). Look at the class slides for a PHP example that handles uploads.
- A display window that lists the names of the images in your dropbox directory. For each image name you have a link that, when you click it, it displays the image in the image section. Each image name also has a button to delete this image from the dropbox storage.
- An image section that displays the selected image. You can change the image by changing the src attribute value of the `<img ...>` element (you don't need Ajax; you just need to generate Javascript from your album.php). Hint: you may use the onclick method on a image file name to change the src attribute of the img to the o->GetLink($dropbox_file).

Note that the images that you display/delete are those stored in your cse5335_xyz1234 dropbox directory. You should not display any local images.

What to Submit

Submit your zipped project6 directory.