

Programming Assignment 4

Using Cloud Storage

Due on Thursday July 21 before midnight

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 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 using your Mozilla Firefox web browser. Download project4.zip from blackboard and unarchive the files inside your web server document root directory.

Documentation

This project must be done in PHP. Please look at Project 2 for links to PHP tutorials. Your scripts must use the [Dropbox API](#) to upload, delete, and retrieve photographs, and the PHP library [DropPHP](#). You will first need to [create a Dropbox account](#) and a Dropbox API app with both Files and datastores, which will have the App name: cse5335_xyz1234, where xyz1234 is your NetID. Then, edit the file project4/sample.php and set theapp_key and app_secret to your Dropbox API key and secret. You can test your setup on your web browser by using the URL address <http://localhost/project4/sample.php>

Look at the code in sample.php; your album.php must have a similar authentication.

Project Requirements

You will develop a trivial photo-album application on Dropbox. Your task is to modify your album.php script in your project4 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 downloads and 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 current image. You can change the image by changing the src attribute value of the element (you don't need Ajax; you just need to generate javascript from your album.php).

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