391 Project Report

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# Introduction

Our photo sharing web application allows users to upload photos, share them with friends and family and also view pictures uploaded by friends and family. Users can create groups of users and share photos only to that group and also share to all users. Our system is hosted on UofA servers at consort.cs.ualberta.ca , and the databases are hosted on UofA Oracle servers. The system was built using a combination of HTML, PHP, CSS, Bootstrap, and JavaScript.

## General Files

* **index.php:** Opens login/signup.php webpage if their designated links are clicked. Contains the webapp logo and signup and login buttons. This is the first file to be called when starting the cliet at consort.cs.ualberta.ca/~<ccid>. This page has two buttons that redirect the user to login.php, or signup.php. Checks if there is an active session meaning there is a user still logged in. If this is the case the user is redirected immidiadtly to profile.php. This file displays the user.
* **header.php:** The header on the pages at the top that allow the user to redirect to other modules. There are links to searching, groups, displaying and uploading pictures. This file is required in many other php files.
* **profile.php:**

Requires setup.php to access the database and homepage.php to display the header files, wallpaper, and logo. Called after a user logs in or signs up. Displays some information about the user. Also is called when a user clicks the home button at the top of the page displayed by the header.php.

SELECT user\_name,first\_name,last\_name,address,email,phone FROM persons WHERE user\_name =\''.$username.

This query is used to get information about the user. This information is displayed to the user.

* **function.php:** Functions necessary for string sanitizing, and creating and destroying sessions.

## Database Connection Files:

* db.php:

File that holds classes and methods for connecting to the database. From this file we can make a connection, and execute commands. The executecommand function will take an sql query after a connection is made and queries the database, and returns the array of results.

This file also contains the following methods

* connect() Used to establish a connection to the database.
* getConnection() returns the connection
* disconnect() to disconnect from the database.
* executeStatement($stmt) for executing generic statements.
* executeStatementAlt($stmt) for executing statements with array return values.

* setup.php:

This file will generate a database object. Calls db.php to create that object and create a connection. This is where we specifiy the username and password to access the database

* setup.sql:

SQL commands to generate tables required for this database.

* config.php:

Used for database connection. Where we specifiy the host, port and SID for the database.

## Style sheets (/include/css directory):

* signin.css: css file for formatting. Used in multiple files
* theme.css: css file for formatting . Used in multiple files

## Images (/include/images directory):

* bgimage.jpg: Background picture for website
* logo.png: Photoshare logo in blue
* logored.png: Photoshare logo in red

## Usermanagement Module (/usermanagement directory):

This module allows your clients to register an account by providing required information, including a unique user name, password, first name, last name, address, email, and phone number, and to log in as a registered user to perform various tasks.

* **usermanagement:**

The directory that holds all the files that are related to signing up, logging in and logging out to the website.

* **login.php:**

Requires setup.php to access the database and homepage.php to display the header files, wallpaper, and logo. This file is called from index., displays the login form. Does some error checking. Making sure the fields have values, and are a certain length. This file contains mostly html and bootstrap for displaying forms and logos, and javascript for checking the form. Making sure the form contains values are correct.

* **loginAuth.php:**

This file is called from login.php after the user clicks the login button in the login.php file. Checks if the username and password are in the database. If the user and password are valid, profile.php is called to display the users profile. If the user does not exist the login.php page is called again and an alert is displayed with an error message. A session is created after a successful login.

Select user\_name from users where username=’$username’ AND passoword=’$password’

* **signup.php:**

Requires setup.php to access the database and homepage.php to display the header files, wallpaper, and logo.

This file is called from index.php. Allows the user to register to the application. Does some error checking. Makes sure all the values are entered, passwords match, valid phone number and a valid email. Uses html, bootstrap and javascript.

* **signupAuth.php:**

This file is called from signup.php. Checks if the username is taken. If the username is not taken and the values entered are valid the a row is created in the users table and in the persons table in the database. A session is created, the user is logged in.

SELECT user\_name FROM users WHERE user\_name =\''.$username.

-uses to check if the username is in the database and not unique

Insert into users values ($username, $password, NULL)

Insert into persons values($username, $firstname., $lastname, $address., $email, $phone)

-Adding users to the users table and persons table in the database.

* **logout.php:**

This file is called if the user clicks logout. Destroys the session, and logs the user out. index.php is then called to allow a new user to be logged or register.

## Data Analysis Module (/admin directory):

* **admin.php:**

## Searching Module (/search directory):

## Uploading Module( /upload directory):

## uploadForm.php

## Security Module:

* One cannot login into the system without providing a valid user name and password.

This is enforced in the user management module , and usermanagement directory.

* Each user may create any number of groups, each of which has a group name, and consists of a list of user names.

In the group directory, users can login create any number of group, and any number of users to a group. The only constraint is the group name must be unique to the user. Meaning two users can have the same group name, but a user may not have the same group name for two groups.

* Each image stored in the system has a unique owner, and the image, as well as its descriptive information, can only be updated and/or removed by its owner.

A user can upload images, and their username is stored as the owner. Only the user can update the images information, or delete the image entirely.

* Each image can be viewed by public, i.e., by any user

a designated group, i.e., all users in the group, or

private, i.e., by the owner only.

This is enforced when a user searches for images.

Depending on an images security settings, only images that are permitted for them to see will be shown. Eg. Groups they are in, or if images are public.

## Display Module(/display directory) :

* **display.php:**

Display’s the images owned by the user. Requires setup.php to access the database and homepage.php to display the header files, wallpaper, and logo. Displays all the images in a table. User has a drop down action list. Options include delete images, and update images and its security settings. If delete image link clicked, user will be sent to delete.php where they will select the images they would like to delete. If they click update, they will be redirected to update.php where they will select images to update.

Users also can click an image and they will be redirected to displaySingle.php where the single image will be displayed, along with more information including subject, place, description, and more.

* **delete.php:**

Requires setup.php to access the database and homepage.php to display the header files, wallpaper, and logo.

Here, users select images they wish to delete. They check off the pictures they wish to delete. This file then hands off an array of photo\_ids to deleteDB.php

* **update.php**

Requires setup.php to access the database and homepage.php to display the header files, wallpaper, and logo.

Users can check off all the images they wish to change. They can select one or more. This file then hands off an array of photo\_id’s to updateImage.php in the upload directory. The users can then enter new information and all the photos will be updated.

* **deleteDB.php**

Requires setup.php to access the database.

'DELETE FROM images WHERE photo\_id=\''.$check.'\''

$check is one photo\_id from an array of photo id’s