Software Engineering 2

Itec 471

Spike Project

* Writing Hello World in ASP.net
  + Installed Microsoft visual website developer 2010 express
  + Developed a sample page using asp.net to display Hello World
    - Looks a lot like html coding to a point
    - Starting looking at a login page
      * Developed groups and roles
      * Created users
    - Got the Hello World to display correctly in a browser
* Installed python
  + Made a hello world appear in the rucs sever
  + Made a script/program in vim to display hello world
  + <http://docs.python.org/tutorial/>
  + <http://www.thegeekstuff.com/2009/09/python-hello-world-example-how-to-write-and-execute-python-program-on-unix-os/>
    - Looking up cloud on python
      * <http://cloudage.admin-magazine.com/Videos/Programming-the-Cloud-with-Python-and-Open-Source-Tools>
* Trying to create a gui in python
  + <http://sebsauvage.net/python/gui/#import>
  + <http://www.python.org/download/releases/3.2.2/>
  + Had to install the Tkinter
    - <http://www.activestate.com/activetcl/downloads>
    - <http://www.tkdocs.com/tutorial/install.html>
* Look up two clouds similar to what we are going to do
  + <http://en.wikipedia.org/wiki/Flickr>
  + <http://en.wikipedia.org/wiki/Picasa>
* Looking at openstack
  + <http://openstack.org/>
* Install xampp ?
  + Installed
* Python 2.7
  + Installed
* mySql DB
  + don’t know if worked
* Introduction to php
  + <https://php.radford.edu/introduction.html>
* How to connect to the database
  + <https://php.radford.edu/~mysql-php/create.html>
  + Mysql -
  + <https://php.radford.edu/~mysql-php/phpMyAdmin/index.php?token=fbde2883b6cf5668d057c916cdf6d4de>
  + Created a User database

# Open database connection

db = MySQLdb.connect("php.radford.edu","username","password","dbname" )

* How to create a simple login page and connect to the php sever database
  + <http://frozenade.wordpress.com/2007/11/24/how-to-create-login-page-in-php-and-mysql-with-session/>
  + Tried – almost have it but right now failed
  + In php login test in dynamic\_php
  + In python with php
    - <http://www.java2s.com/Tutorial/Python/0440__CGI-Web/Loginform.htm>
    - Uses the CIG import
* Given python testcgi.py
  + Put in dynamic\_php
  + Cant get it to work – works now
  + Ran the cgiErrors.pl
    - Looks like error in mysql
    - Got hello world to work
* Connect to database correctly from python
* Have simple login forum created for the cloud

**Please, enter your username and password.**

|  |  |
| --- | --- |
| **Username:** |  |
|  |  |
| **Password:** |  |

* + 
* Blob for images ?
  + <http://www.akadia.com/services/dotnet_load_blob.html>
  + <http://apidoc.apsw.googlecode.com/hg/blob.html>
    - <http://zetcode.com/databases/mysqlpythontutorial/>
    - Tells how to write a image to database and call it
    - Created a html page that will link to a python upload page
      * <http://scriptingmysql.wordpress.com/2011/09/21/using-mysql-to-import-and-retrieve-blobs-and-display-as-image-files-in-html/>
* Creating login error
  + Going from a python script to another python script
* Fetching
  + Row = cursor.fetchone()
* How to connect to the python server
  + <https://php.radford.edu/cgi-bin/cgiwrap?user=mdbristol&script=/spike/index.php>
* Got connection to database
  + Problems
    - Gets error is no name and username is inputted
    - Gets error is the name is not in database
* Created a homepage
  + Need user profile
  + Images
  + Files
* Added a picture of a cloud to index page
  + <http://cdn.slashgear.com/wp-content/uploads/2011/04/cloud_0.jpg>
* Added home icon page to homepage
  + <http://3.bp.blogspot.com/_Pvczjr_7004/TFwRXhXPsJI/AAAAAAAABxw/Nsg_IyOBOQw/s1600/Home+Icon.jpg>

**Project at this point**

* Login page
  + <https://php.radford.edu/cgi-bin/cgiwrap?user=mdbristol&script=/spike/index.py>
  + Two errors
    - If username doesn’t exist site crashes
    - If no username or password inputted site crashes
      * To fix this I would need to implement so more if statements or try catch blocks
* Login authentication
  + <https://php.radford.edu/cgi-bin/cgiwrap?user=mdbristol&script=/spike/login.py>
  + Lets the user continue on if he enter correct password and username
    - Need to have a cookie or session to allow the system to stay secure so that no other pages can be accessed intill login is done
* Home page of the user who login in
  + <https://php.radford.edu/cgi-bin/cgiwrap?user=mdbristol&script=/spike/homepage.py>
    - Need to have a sql statement to make sure the correct user is on his or her page
  + Home page consist of
    - Profile
    - Upload
    - Album
    - Search
      * Need to have a collage that is made from all the photos
* Profile where user can change his or hers information
  + <https://php.radford.edu/cgi-bin/cgiwrap?user=mdbristol&script=/spike/profile.py>
  + Should have the username current info being displayed and then he would be allow to input new data is he whats to change it
  + After the submit button is hit a sql statement update would look for that user’s profile database
* Upload where images can be added to the database
  + <https://php.radford.edu/cgi-bin/cgiwrap?user=mdbristol&script=/spike/Upload.py>
  + The user can select an image to upload and when submitted the image is inserted into the images database
    - Need to have option where I can download images from the database
      * To be implemented in the album section
* Album where the user can see and download images that he or she has uploaded
  + <https://php.radford.edu/cgi-bin/cgiwrap?user=mdbristol&script=/spike/Album.py>
  + A sql statement is needed to display all the users images in his part of the database
    - Need to find out how to display the image link to download
* Search allows a user to search for a another user based on the input conditions and display his or hers profile when search takes place
  + <https://php.radford.edu/cgi-bin/cgiwrap?user=mdbristol&script=/spike/search.py>
  + Takes in the first and last name of a user to search
  + Uses a select statement to search the user profile database for the conditions
    - Python script does not really work
* Other things need
  + Logout
    - Would need to have a button to log out
  + Return to homepage option
  + Add new user which would just be a sql insert statement into the user database