COMP 3015

Introduction to Web Applications

with PHP

Assignment 1

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The purpose of this assignment is to work with everything from the first half of the course.

index.php

- This is a simple welcome page
- create a page with links to login.php and signup.php

login.php

- display a login form with username, password, and a login button
    - this form will POST to redirect.php
    - tag on a query parameter to indicate this is coming from login.php

signup.php

- display a sign up form with username, password, verify_password, and a sign up button
    - this form will POST to redirect.php
    - tag on a query parameter to indicate this is coming from signup.php

redirect.php

- if the request is a GET request, redirect to index.php
- if the request is a POST request, use the query parameter to determine if this is a login or a signup
- for logins, attempt to search for the username and password pair in users.txt
    - validate the username – it can contain numbers and letters only, maximum length of 15 characters, but at least 8 characters long
    - validate the password – it must be at least 8 characters long, must contain numbers and letters, and one of the following four special characters ! ? | @
    - if the username/password pair is found, redirect to thankyou.php with a message

thanking the user for logging in. Include their username in the message

- o if the username/password pair is not found, redirect back to login.php. No error message is needed
- for signups, attempt to add the username and password pair into users.txt
  - o validation
    - ▪ validate the username – same as login requirements
    - ▪ validate the password – same as login requirements
    - ▪ validate verify_password – must match password
    - ▪ if all parameters validate, redirect to thankyou.php with a message thanking the user for signing up. Include their username in the message
    - ▪ if the parameters do not validate, redirect back to signup.php. No error message is needed
    - ▪ and of course, if the parameters are not valid, do not persist their values to users.txt
  - o hash the password any way you like, but they must be hashed
  - o the format of the users.txt file must be
    `username|password`

thankyou.php

- a simple page that either thanks the user for logging in or for signing up
- the username to thank should be passed in as a GET/query parameter
  - o validate/filter this so that only valid usernames are used
- the login or signup thank-you message should be predefined in this file
  - o you may want to use a GET parameter to determine which message to display
  - o if the user successfully logged in, thank them for logging in
  - o if the user successfully signed up, thank them for signing up

Submission

Zip up all your files and submit it to the D2L dropbox. (http://learn.bcit.ca)