

ITWS_4700/6800 Software Development

Homework 3 Wiki Web Application and PHP/MySql Practice

Due on Feb. 27, 2018 for Presentation

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Overview

This assignment asks you to host a Wiki web site on your computer. The purpose is to enhance your knowledge and give you hands-on experience on open source web server, web application, software bundle, MySql database, and Wiki through using the XAMPP bundle and the MediaWik package. This assignment will also empower you on information management. You want to follow the online reference for the installation and building wiki pages. Several help files are provided with this assignment. You could also choose a different software bundle or wiki engine to meet the requirements. The requirement specifications are listed below:

Part 1 (85%)

1. Install the XAMPP software stack on your local computer to support your MediaWiki website.
2. Install the MediaWiki engine on your computer to power your wiki website.
3. Develop your MediaWiki pages.
4. Your wiki site/pages should implement at least the following features (but not limited to them):
 - a. Create a domain name for your wiki site (map your local host IP address)
 - b. Use a new logo image for your wiki site
 - c. Be able to create login accounts for users
 - d. Develop several wiki pages
 - e. Use tables to display some contents
 - f. Display different heading levels
 - g. Have links to your internal wiki pages
 - h. Have links to external http sites
 - i. Show your Wiki page history (change history)
 - j. Be able to upload files/pictures (add the attachment)
 - k. Search your Wiki site
 - l. Add more items to the navigation sidebar as show on the right
 - m. Have collapsible/expandable items on the sidebar as show on the right

A side bar example

[Main page](#)
[Get MediaWiki](#)
[Get extensions](#)
[Communication](#)
[Tech blog](#)
▼ Support
[User help](#)
[FAQ](#)
[Technical manual](#)
[Support desk](#)

- n. You are encouraged to include rich contents and be creative
 - o. Layout nicely
 - p. Optional: export your wiki database so it can be import to other machines/databases (extra 5%)
5. During the practice, you want to:
- a. Understand what is the XAMPP bundle
 - b. Explore how the wiki pages and their history are managed in the MySQL database
 - c. Understand the XAMPP's directory structure
6. Feel free to use the latest version of the software when you download them. The posted help files on the LMS may be out of date and are only for your reference.

Some online reference:

<https://blog.udemy.com/xampp-tutorial/>

<https://en.wikipedia.org/wiki/XAMPP#Etymology>

Many YouTube videos are also available.

Part 2 (15%)

Write a simple php program to connect to a MySQL database to retrieve (or alter, optional) some information from (in) the database, and to display the retrieved information on a web page.

You want to deploy your php program under the htdocs directory. Therefore, you can browse the page through the Apache Webserver.

Examples on how to connect to a MySQL database and more:

http://www.w3schools.com/php/php_mysql_connect.asp

http://www.w3schools.com/php/php_mysql_intro.asp

Presentation and Submission

Present your wiki site and php program to the class on the due day. You want to demonstrate what you learned from this assignment.

Write a report in good format. Submit the report to describe your work with screenshots.

Grading policy: You can form a group up to 3 members and give a group presentation, or do it by yourself if you prefer. If you are with a group, only one group submission is required with all the members listed in the note area. However, everyone is required to implement the requirements on his/her own computer and the work will be checked individually.

Hope you enjoy this homework and find it is useful.