Lab #9

Part 0

Create a new folder for Lab 9 in your websys folder, and confirm that it is being served by Apache.

Ensure that you have a browser plugin capable of debugging JavaScript (you should be familiar with setting breakpoints and watch variables from earlier labs). If you are stuck with this, ask a team member, TAs, or myself.

Part 1 - JSON

Create a JSON document containing information about the lectures and labs you've encountered in the Websys course. Your document should conform to the following structure with a top level object named Websys_course:

Websys_course

-Lectures

--Lecture 1

---Title

---Description

---Link to Slideshow

.

.

-Labs

--Lab 1

---Title

---Description

---Link to Instructions

.

.

Part 2 - Front-End

Design a front end to browse the contents of the course. Like quiz 1, create a simple UI that includes the following features:

1. A navigational element on the left containing a dynamically built list of course content. You would have to read the contents of the JSON document to fill this
2. A preview area that contains the title, description, and link to the material of the selected item (lecture/lab). This area should only contain info about the currently selected lab/lecture.
3. A button that refreshes the navigational items by re-reading the JSON file.
4. A logout button that returns the user to the login page.

Part 3 - Back-End

Develop a back-end to the site in PHP (could be 1 or multiple pages) that accomplishes the following:

1. Presents a landing page with a login form that authenticates credentials against a database, and if successful directs the user to the front-end.

2. Allows the user to archive the course contents in the database by inserting the information retrieved from the JSON file into tables

You will have to create a database for this to work, feel free to create the database using phpmyadmin but make sure to export the database structure as SQL and include it along with your submission.

Receiving credit

Export the structure and content of your database and tables to a text file using phpmyadmin.

Place all your files (HTML, JS, CSS, PHP, etc.) in one folder in your submission.

As normal, there should be a **readme** file included which explains your observations/comments/assumptions from this lab.

Submission

Zip up your lab 9 folder ...

Rename it to **websyslab9-*yourname*-*yourRCSID*.zip**

Submit it to LMS

Rubric/Grading

Part 1   10 Points

Part 2   40 Points

Part 3   40 Points