Assignment 1 - Part 2 - A dynamic site

Please read "Assignment 1 – Overview" and the "Assignment 1 – Part 1" documents before reading this document.

Create web site and back-end for a day care centre. The web site will allow the parent/carer to enter their mobile phone number and a pin number to login and receive their child's details:

1. Ensure all web pages described here are consistent with the *sponsors.html* file described in "Assignment 1 - Part 1" by:

    a. Linking with the same CSS and JavaScript files.

    b. Being consistent with appearance and design, including implementing the same header, navigation bar, and footer.

    c. Using the same business logo and favicon

2. Write **MySQL** code that build:

    a. Creates a database named with your given name, for example **subhash_databasename.**

    b. Creates a "**carers**" table within your database.

        i. The table should have customer_id, PIN (personal identification number), given_name, family_name, columns.

        ii. The customer_id should serve as the primary key, should be a 10-digit integer that is the carer's mobile phone number (and so should NOT be an auto_increment field) and should not be left null.

        iii. The pin number should be a 4-digit number stored encrypted

    c. Create a "child" table that contains the child's given name, family name, date of birth, gender, daily message, and carer's mobile phone number

    d. Connect the 2 tables using primary and foreign key fields.

    e. Insert at least 5 records into the each table.

3. Create that database on your web host by pasting your MySQL code into your Webhost's phpMyAdmin tool (or another SQL tool). Your host may have some control over your database name, but always be sure to include *your given name* as part of the database name.

4. Create a page named *index.html* for your site that:

    a. Displays a HTML form that accepts the customer's phone number and PIN.

    b. Uses HTML to prevent the form being submitted when either box is left empty.

    c. Uses JavaScript to prevent the form being submitted when the customer id contains other than 10 digits.

5. Create a PHP program called *connector.php* which stores a connection to your database in a variable named *conn_to_*yourname.

6. Create PHP page named *process.php* that:

    a. Makes use of the *connector.php* file

    b. Reads the form's submitted details and then:

        i. Displays the details of their children if the login is successful

        ii. Re-display the login form if the login was unsuccessful.

7. Create a sitemap.xml file of your site and upload it to your site.

8. Make your site and your sitemap file known to Google using a Google Webmaster account

9. Advanced requirements: To gain 2.5 marks toward your total mark for this BIT245 subject and for the pride of having a implemented a more complete solution:

    a. Re-use PHP code:

        i. Create 4 new PHP files: *header.php*, *error.php*, *success.php*, and *footer.php* to hold appropriate contents e.g. header.php to contain your business logo, heading, and navigation bar, and error.php to contain the message for failed logins.

        ii. Use the PHP commands `include` or `require_once` to insert those 4 pages into your *process.php* file. They should serve the purpose indicated by their name (e.g. use header.php to hold your company logo and the navigation bar, while you would use footer.php to hold your contact details). iii. Convert your *sponsors.html* page into a PHP page named *sponsors.php* and make use of the *header.php* and *footer.php* files

    b. Combine your *index.html* and *process.php* page into a single file named *index.php* and:

        i. The form's "action" attributes should point to itself - *index.php*.

        ii. If the user arrived at the page by pressing the submit button, then the form data should be processed.

            1. If the login was successful, the parent/carer should be presented with their children's' details.

            2. If unsuccessful, then user should be presented with login form and that form should contain the previous login attempt values. iii. If the user arrived at the home page by a method other than by pressing the submit button (e.g. by typing in the URL), then the user should be presented with an empty login form

10. Paste the following into your MS Word document:

    a. The URL of your site's landing page. Place it on line 2.

    b. Your MySQL code as plain text.

    c. A screenshot of your web host showing the names of the database in your site

    d. Screenshots from your host's phpMyAdmin tool showing all records in your database.

    e. Screenshots from your Webhost's public directory showing all files that you created for this assignment. Use multiple screenshots if necessary.

    f. A screenshot of your Google Webmaster account showing that you have "added" your site and told Google about your sitemap file.

    g. The contents of your sitemap file.

    h. All PHP, CSS any JavaScript code that you wrote yourself. Don't not include code libraries such as Bootstrap or jQuery.

    i. As per instructions in the Assignment Overview, give each section a heading styled with MS Word's "heading" styles so that those headings will be included in the document's "Table of Contents".