Question 1 Scenario:

You are developing a basic library management system for a small community library. This system will allow the librarian to add new books, view a list of all books, and manage the status of books (available or issued). You will create a basic web application using PHP and MySQL to implement these features.

Requirements:

1.1.   Database Setup:

Create a MySQL database named library_management.

Within this database, create a table named books with the following columns:

id (INT, primary key, auto-increment)

title (VARCHAR(100))

author (VARCHAR(100))

isbn (VARCHAR(20))

status (VARCHAR(10), default 'Available')

created_at (TIMESTAMP, default current timestamp)

[In the actual test, you will be required to select the most appropriate data type on your own!]

1.2.   PHP Script for Adding Books:

Create a PHP script named add_book.php. This script should include a form to capture book details (title, author, isbn) and insert these details into the books table in the database.

Ensure that the form includes validation to check that all fields are filled in.

1.3.   PHP Script for Viewing Books:

Create a PHP script named view_books.php. This script should display a list of all books from the books table in a tabular format.

Each row should display the title, author, isbn, status, and the date the book was added.

1.4.   PHP Script for Updating Book Status:

Create a PHP script named update_status.php. This script should allow users to update the status of a book (either 'Available' or 'Issued') based on the book's ID.

The view_books.php script should include an "Update Status" button for each book row, which redirects to the update_status.php script to perform the status update.

1.5.   PHP Script for displaying specific lists:

Create a PHP script named display_issued_books.php. This script should display a list of all books from the books table which have been issued, in a tabular format.

Each row should display the title, author, isbn, and the date the book was added to the database.

1.6.   Search by book author

Create a PHP script named search_by_author.php. This script should provide facilities for a user to search the database by author and display the results in a tabular format. Note that it is possible to have more than one book with the same author.

Each row should display the title, author, isbn, status and the date the book was added to the database.

Submission Guidelines:

Save your solution files to a folder as follows: [suggested naming convention for folder]. Use the file names given in the question for each solution and save the file in this solutions folder.

Create a MS Word File and make a screenshot of the database structure in phpMyAdmin and insert the screenshot in the word file.

Create the User Interface and make a screen shot of the users first view of the form to input the data – paste this picture next in the file

Lastly make a screen shot of the records in the db table at the end of the test and paste this last in the ms word file.

Save the MS word file in your solutions folder.[suggested file name]

At test end, zip the folder and upload to BB Learn.

PHP Text File Handling

Question 2 Scenario:

You are developing a basic contact management system. This system will allow you to add contacts, view contacts, and delete contacts.

Requirements:

2.1. PHP Script for Adding Contacts (add_contact.php):

  - Create a PHP script that includes a form to capture contact details (name, phone number, email).

  - Append these details to a text file named `contacts.txt`.

  - Ensure validation to check that all fields are filled in.

2.2. PHP Script for Viewing Contacts (view_contacts.php):

  - Create a PHP script that reads from `contacts.txt` and displays the contacts in a tabular format.

  - Each row should display the contact name, phone number, and email.

2.3. PHP Script for Deleting Contacts (delete_contact.php):

  - Create a PHP script that allows users to delete a specific contact based on the contact name.

  - Implement functionality to rewrite `contacts.txt` without the deleted contact.

2.4. PHP Script for Updating Contacts (update_contact.php):

  - Create a PHP script that includes a form to capture the new phone number of a contact. Find the contact in the database and display the details of the contact

  - Now allow the user to update the phone number and then update the record in the file.

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