

Report

HALIFAX SCIENCE LIBRARY PROJECT

MCDA5540

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PHP Web Application for Halifax Science Library

A PHP web application is implemented for Halifax Science Library personnel to maintain their relational schema and record useful information to their database. Various PHP scripts have been prepared and integrated to perform required operations such as display all tables, table content, add new article, magazine, volume, transaction and cancel previous transaction.

Main Page

The main page facilitate user to navigate through the following operations:

1. Show table
2. Add new article
3. Add new customer
4. Add new transaction
5. Cancel transaction.

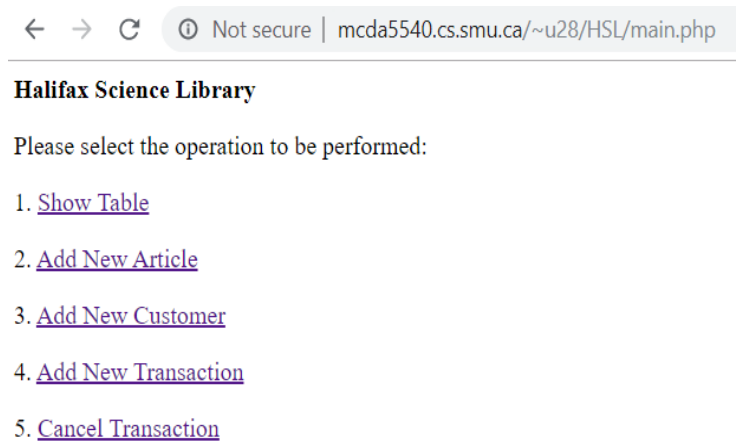


Fig: 1

Link: <http://mcda5540.cs.smu.ca/~u28/HSL/main.php>

Show Table

The show table displays the list of all tables in the database and allow user to view the content of any table by entering the correct name of that table in the text box and hit submit. User can be able to navigate back to the table selection and to the main page by hitting select another table and home button respectively.

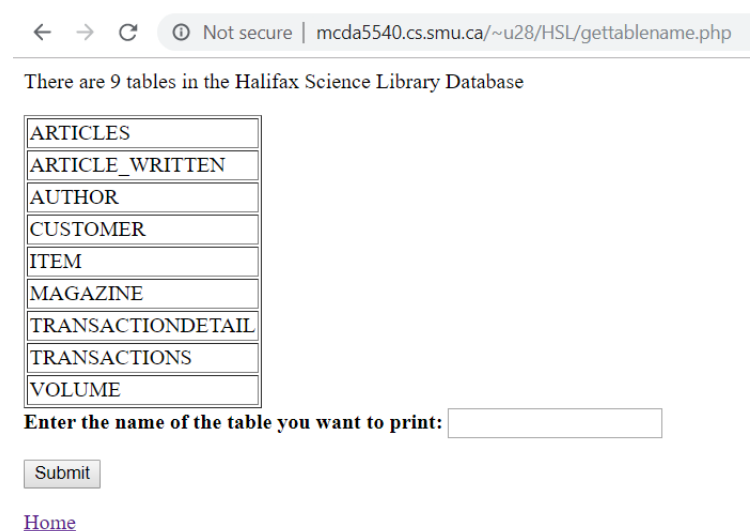


Fig: 2

Link: <http://mcda5540.cs.smu.ca/~u28/HSL/gettablename.php>

Add new article

The add new article allows user to add new article details to the database. Article details include article title, magazine id, volume id, page number, and first name, last name and email id if all the authors of the article. Each article must have at least one author.

In order to insert article in the article table, Magazine ID and volume ID should be already exist in respective tables. Therefore, if magazine ID and volume ID do not exist in magazine and volume table respectively then user has to make these entries first and then add new articles.

Error message will be prompted in case magazine ID and volume ID do not exist.

Link:

<http://mcda5540.cs.smu.ca/~u28/HSL/addarticle.php>

← → ↻ ⓘ Not secure | mcda5540.cs.smu.ca/~u28/HSL/addarticle.php

[Home](#)
[Add Magazine](#)
[Add Volume](#)

Enter Article Details

Magazine ID
Volume ID
Article Title
Page Number

Author Details

Author 1
First Name
Last Name
Email

Author 2
First Name
Last Name
Email

Author 3
First Name
Last Name
Email

Fig: 3

Add new magazine

The add new magazine page allows user to add new magazine by specifying Magazine ID, magazine price and magazine name if it does not exist in database. This addition will populate Item table with magazine ID and price and Magazine table with magazine ID and name in the database.

Error message will be prompted in case magazine ID already exist.

Link: <http://mcda5540.cs.smu.ca/~u28/HSL/addmagazine.php>

← → ↻ ⓘ Not secure | mcda5540.cs.smu.ca/~u28/HSL/addmagazine.php

[Home](#)

Enter Magazine Details

Magazine ID
Magazine Price
Magazine Name

Fig: 4

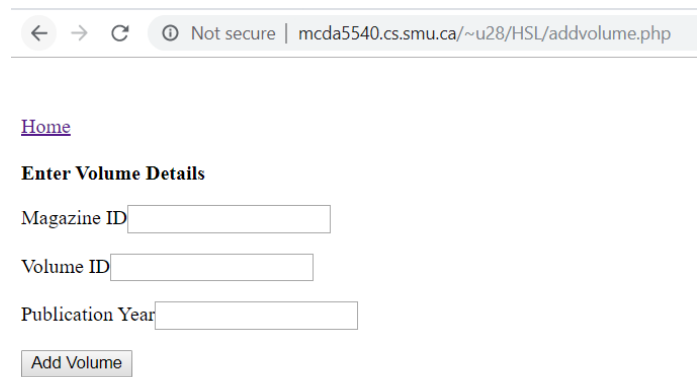
Add new volume

The add new volume page allows user to add new volume of a magazine if it does not exist in database. This insertion will populate Volume table in the database with volume ID, Magazine ID and publication year.

Error message will be prompted in case volume ID already exist.

Link:

<http://mcda5540.cs.smu.ca/~u28/HSL/addvolume.php>



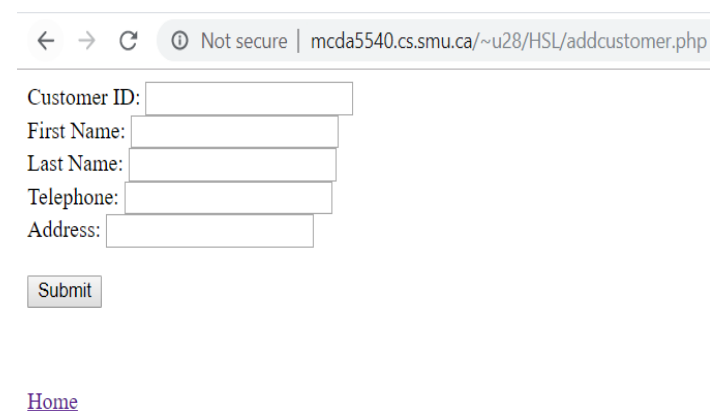
The screenshot shows a web browser window with the address bar displaying 'mcda5540.cs.smu.ca/~u28/HSL/addvolume.php'. The page has a 'Home' link at the top. Below it, the section 'Enter Volume Details' contains three input fields: 'Magazine ID', 'Volume ID', and 'Publication Year'. At the bottom of the form is an 'Add Volume' button.

Fig: 5

Add new customer

The add new customer page allow user to add the new customer information to the customer tables in MySQL database. Customer ID uniquely identify each customer so, user will not be able to add another customer with customer ID which is already assigned to a customer.

Error message will be prompted in case customer ID already exist.



The screenshot shows a web browser window with the address bar displaying 'mcda5540.cs.smu.ca/~u28/HSL/addcustomer.php'. The page has a 'Home' link at the top. Below it, the section 'Enter Transaction Details:' contains five input fields: 'Customer ID', 'First Name', 'Last Name', 'Telephone', and 'Address'. At the bottom of the form is a 'Submit' button.

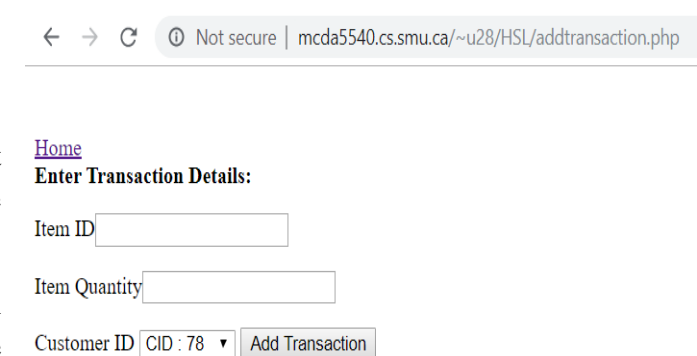
Fig: 6

Link: <http://mcda5540.cs.smu.ca/~u28/HSL/addcustomer.php>

Add new transaction

The add new transaction page let user to add all items in a transaction for a customer by entering all item ID and their prices into the corresponding text box with ',' separation. Further, customer ID can be chosen from a dropdown list.

The transaction information will be stored in related tables in database. The discount code for the customer will be calculated based on the total amount spent by the customer over the last 5 years.



The screenshot shows a web browser window with the address bar displaying 'mcda5540.cs.smu.ca/~u28/HSL/addtransaction.php'. The page has a 'Home' link at the top. Below it, the section 'Enter Transaction Details:' contains three input fields: 'Item ID', 'Item Quantity', and a dropdown menu for 'Customer ID' (currently showing 'CID : 78'). At the bottom of the form is an 'Add Transaction' button.

Fig: 7

Error message will be prompted in case number of items does not match with number of quantities because quantity for each item should be provided.

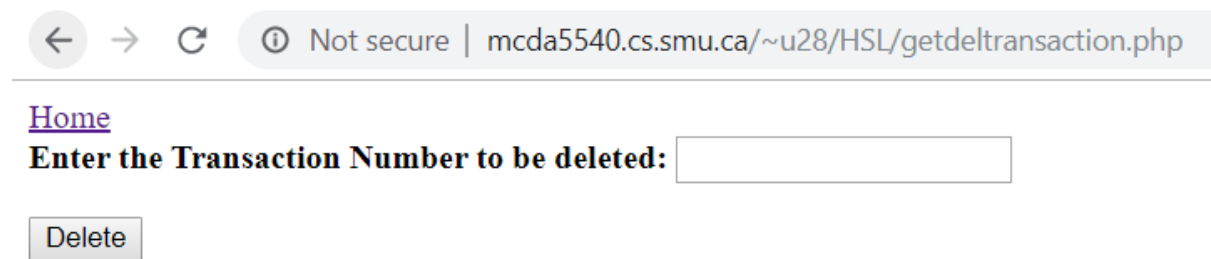
Link: <http://mcda5540.cs.smu.ca/~u28/HSL/addtransaction.php>

Cancel Transaction

The cancel transaction page facilitate user to delete a transaction by specifying the transaction number that is intended to be removed from the database. This will remove the transaction record from the database. An error message will be shown if the transaction number is not existed or the transaction occurred more than 30 days ago.

Error message will be prompted in case transaction ID do not exist.

Link: <http://mcda5540.cs.smu.ca/~u28/HSL/getdeltransaction.php>



← → ↻ ⓘ Not secure | mcda5540.cs.smu.ca/~u28/HSL/getdeltransaction.php

[Home](#)

Enter the Transaction Number to be deleted:

Fig: 8

Note:

- **dbguest.php** contains the credential of server, user, password and database which needs to be changed according to the environment used to run the application.