



CALIFORNIA STATE UNIVERSITY, EAST BAY

DATABASE ARCHITECTURE

AddBook.php & Checkout.php

Author:
Erwan GUYADER

Supervisor:
Prof. James DALEY

December 1, 2011

AddBook.php

Source code

```
<?php
define( 'USER', 'root' );
define( 'PWD', 'K@T/QUJ@' );

$dsn = 'mysql:host=localhost;dbname=library-sql-project';

try {
    $sql = new PDO($dsn, USER, PWD);
} catch (PDOException $e) {
    echo 'Connection failed: ' . $e->getMessage();
}

?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <title>Add Book</title>
    <link rel="stylesheet" media="screen" type="text/css" href="design.css" />
</head>
<body>
    <h1>Add Book</h1>
    <h3>Fill in below fields and click on 'Add Book'</h3>
    <form name="AddBook" method="post" action="">
        <p>
            <label for="book">Book:</label><br />
            <input type="text" name="book" id="book" /><br /><br />
            <label for="branch">Branch:</label><br />
            <select name="branch" id="branch">
                <?php
                    foreach ( $sql->query( 'SELECT branchname FROM Branches' ) as $row ):
                ?>
                <option value="<?php echo $row[ 'branchname' ]; ?>"><?php echo $row[ 'branchname' ]; ?></option>
                <?php endforeach; ?>
            </select><br /><br />
            <label for="category">Category:</label><br />
            <select name="category" id="category">
                <?php
                    foreach ( $sql->query( 'SELECT categoryname FROM Categories' ) as $row ):
                ?>
                <option value="<?php echo $row[ 'categoryname' ]; ?>"><?php echo $row[ 'categoryname' ]; ?></option>
                <?php endforeach; ?>
            </select><br /><br />
            <input type="submit" name="add" value="Add Book" />
        </p>
    </form>
</body>
</html>
```

```

        <input type="button" name="return" value="Return" onClick="location.
            href='index.php'" />
    </p>
</form>

<?php
if (isset($_POST['add'])) {
    if (!empty($_POST['book']) && !empty($_POST['branch']) && !empty($_POST['category'])) {
        $sth = $sql->query("select count(*) from Books where bookname='".$_POST['book']."' and branch='".$_POST['branch']."'");
        $row = $sth->fetch();
        $copy = $row[0];
        if ($copy == 0) {
            $sql->exec("insert into Books (BookName, Branch, Category) values ('".$_POST['book']."', '".$_POST['branch']."', '".$_POST['category']."'");
            echo '<p>'.$_POST['book'].' successfully added in the '.$_POST['category'].' category of the '.$_POST['branch'].' branch.</p>';
        }
        else
            echo '<p>'.$_POST['book'].' already exists in the '.$_POST['category'].' category of the '.$_POST['branch'].' branch.</p>';
    }
    else
        echo '<p>All fields are required.</p>';
}

$sql = null;
?>

</body>
</html>

```

Result

Add Book

Fill in below fields and click on 'Add Book'

Book:

Branch:

Category:

Add Book

Return

Fremont history successfully added in the Travel catgeory of the CalState branch.

Add Book

Fill in below fields and click on 'Add Book'

Book:

Branch:

Category:

Add Book

Return

Fremont history already exists in the Travel catgeory of the CalState branch.

Checkout.php

Source code

```
<?php
define( 'USER', 'root' );
define( 'PWD', 'K@T/QUJ@' );

$dsn = 'mysql:host=localhost;dbname=library-sql-project';

$cardholder = '';
$balance = '';
$numberCheckedOut = '';

try {
    $sql = new PDO($dsn, USER, PWD);
} catch (PDOException $e) {
    echo 'Connection failed: ' . $e->getMessage();
}

if (isset($_POST['checkout']))
    if (!empty($_POST['cardholder']) && !empty($_POST['book']) && !empty($_POST['balance']) && !empty($_POST['due'])) {
        $sql->exec('UPDATE Books SET Cardholder="' . $_POST['cardholder'] . '" WHERE BookName="' . $_POST['book'] . '"');
        $sql->exec('UPDATE Books SET DueDate="' . date('Y-m-d', strtotime($_POST['due'])) . '" WHERE BookName="' . $_POST['book'] . '"');
        $sql->exec('UPDATE Cardholders SET balanceowing="' . $_POST['balance'] . '" WHERE cardholdername="' . $_POST['cardholder'] . '"');
    }
    else {
        echo '<p>All fields are required.</p>';
    }

if (!isset($_POST['checkout'])) {
    if (!isset($_POST['cardholder'])) {
        $sth = $sql->query('SELECT CardholderName FROM Cardholders ORDER BY cardholdername LIMIT 1');
        $row = $sth->fetch();
        $cardholder = $row[0];
    }
    else
        $cardholder = $_POST['cardholder'];
}
else
    $cardholder = $_POST['cardholder'];

$sth = $sql->query('SELECT COUNT(*) FROM Books WHERE cardholder="' . $cardholder . '"');
$row = $sth->fetch();
$numberCheckedOut = $row[0];
```

```

$sth = $sql->query( 'SELECT balanceowing FROM Cardholders WHERE cardholdername
    =' . $cardholder . ' ' );
$row = $sth->fetch();
$balance = $row[0];
?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.
    org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
    <head>
        <title>Check Out</title>
        <link rel="stylesheet" media="screen" type="text/css" href="design.css" />
    </head>
    <body>
        <h1>Check Out</h1>
        <h3>Fill in below fields and click on 'Check Out'</h3>
        <form name="Checkout" method="post" action="">
            <p>
                <label for="cardholder">Cardholder:</label><br />
                <select name="cardholder" id="cardholder" onchange="Checkout.submit()"
                    >
                    <?php
                        foreach ( $sql->query( 'SELECT cardholdername FROM Cardholders' ) as
                            $row ) :
                            ?>
                            <option value="<?php echo $row[ 'cardholdername' ];_?>" <?php if (
                                $row[ 'cardholdername' ] == $cardholder) echo 'selected="selected"
                                ' ?><?php echo $row[ 'cardholdername' ]; ?></option>
                            <?php endforeach; ?>
                        </select><br /><br />
                        <label for="book">Book:</label><br />
                        <select name="book" id="book">
                            <?php
                                foreach ( $sql->query( 'SELECT bookname FROM Books WHERE cardholder _
                                    is _null' ) as $row ) :
                                    ?>
                                    <option value="<?php echo $row[ 'bookname' ];_?>"><?php echo $row[ '
                                        bookname' ]; ?></option>
                                    <?php endforeach; ?>
                                </select><br /><br />
                                <p>Number Already Checked Out: <?php echo $numberCheckedOut; ?><br
                                    /></p>
                                <label for="balance">Balance Owing ($):</label><br />
                                <input type="text" name="balance" id="balance" value="<?php echo _
                                    $balance_?>" /><br /><br />
                                <label for="due">Due Date:</label><br />
                                <input type="text" name="due" id="due" value="<?php echo _date( 'M-d-o ',
                                    time() +14*60*60*24);_?>" /><br /><br />
                                <input type="submit" name="checkout" value="Check Out" />
                                <input type="button" name="return" value="Return" onClick="location .
                                    href='index.php'" />
                            </p>
                        </form>

```

```
</body>
</html>

<?php
    $sql = null;
?>
```

Result

Check Out

Fill in below fields and click on 'Check Out'

Cardholder:

Myrtle Grimes

Book:

Fremont history

Number Already Checked Out: 0

Balance Owing (\$):

5.00

Due Date:

Dec-14-2011

Check Out

Return

Check Out

Fill in below fields and click on 'Check Out'

Cardholder:

Myrtle Grimes

Book:

Toxic Bonds

Number Already Checked Out: 1

Balance Owing (\$):

5.00

Due Date:

Dec-14-2011

Check Out

Return