**CSC351—Webpage-DB-CC: 17CRUD**

**database.php**

<?php

class Database

{

private static $dbName = 'crud\_tutorial' ;

private static $dbHost = 'localhost' ;

private static $dbUsername = 'root';

private static $dbUserPassword = '';

private static $cont = null;

public function \_\_construct() {

exit('Init function is not allowed');

}

public static function connect()

{

// One connection through whole application

if ( null == self::$cont )

{

try

{

self::$cont = new PDO( "mysql:host=".self::$dbHost.";"."dbname=".self::$dbName, self::$dbUsername, self::$dbUserPassword);

}

catch(PDOException $e)

{

die($e->getMessage());

}

}

return self::$cont;

}

public static function disconnect()

{

self::$cont = null;

}

}

?>

**delete.php**

<?php

require 'database.php';

$id = 0;

if ( !empty($\_GET['id'])) {

$id = $\_REQUEST['id'];

}

if ( !empty($\_POST)) {

// keep track post values

$id = $\_POST['id'];

// delete data

$pdo = Database::connect();

$pdo->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);

$sql = "DELETE FROM customers WHERE id = ?";

$q = $pdo->prepare($sql);

$q->execute(array($id));

Database::disconnect();

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<link href="css/bootstrap.min.css" rel="stylesheet">

<script src="js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<div class="span10 offset1">

<div class="row">

<h3>Delete a Customer</h3>

</div>

<form class="form-horizontal" action="delete.php" method="post">

<input type="hidden" name="id" value="<?php echo $id;?>"/>

<p class="alert alert-error">Are you sure to delete ?</p>

<div class="form-actions">

<button type="submit" class="btn btn-danger">Yes</button>

<a class="btn" href="index.php">No</a>

</div>

</form>

</div>

</div> <!-- /container -->

</body>

</html>

**index.php**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<link href="css/bootstrap.min.css" rel="stylesheet">

<script src="js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<div class="row">

<h3>PHP CRUD Grid</h3>

</div>

<div class="row">

<p>

<a href="create.php" class="btn btn-success">Create</a>

</p>

<table class="table table-striped table-bordered">

<thead>

<tr>

<th>Name</th>

<th>Email Address</th>

<th>Mobile Number</th>

<th>Action</th>

</tr>

</thead>

<tbody>

<?php

include 'database.php';

$pdo = Database::connect();

$sql = 'SELECT \* FROM customers ORDER BY id DESC';

foreach ($pdo->query($sql) as $row) {

echo '<tr>';

echo '<td>'. $row['name'] . '</td>';

echo '<td>'. $row['email'] . '</td>';

echo '<td>'. $row['mobile'] . '</td>';

echo '<td width=250>';

echo '<a class="btn" href="read.php?id='.$row['id'].'">Read</a>';

echo '&nbsp;';

echo '<a class="btn btn-success" href="update.php?id='.$row['id'].'">Update</a>';

echo '&nbsp;';

echo '<a class="btn btn-danger" href="delete.php?id='.$row['id'].'">Delete</a>';

echo '</td>';

echo '</tr>';

}

Database::disconnect();

?>

</tbody>

</table>

</div>

</div> <!-- /container -->

</body>

</html>

**read.php**

<?php

require 'database.php';

$id = null;

if ( !empty($\_GET['id'])) {

$id = $\_REQUEST['id'];

}

if ( null==$id ) {

header("Location: index.php");

} else {

$pdo = Database::connect();

$pdo->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);

$sql = "SELECT \* FROM customers where id = ?";

$q = $pdo->prepare($sql);

$q->execute(array($id));

$data = $q->fetch(PDO::FETCH\_ASSOC);

Database::disconnect();

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<link href="css/bootstrap.min.css" rel="stylesheet">

<script src="js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<div class="span10 offset1">

<div class="row">

<h3>Read a Customer</h3>

</div>

<div class="form-horizontal" >

<div class="control-group">

<label class="control-label">Name</label>

<div class="controls">

<label class="checkbox">

<?php echo $data['name'];?>

</label>

</div>

</div>

<div class="control-group">

<label class="control-label">Email Address</label>

<div class="controls">

<label class="checkbox">

<?php echo $data['email'];?>

</label>

</div>

</div>

<div class="control-group">

<label class="control-label">Mobile Number</label>

<div class="controls">

<label class="checkbox">

<?php echo $data['mobile'];?>

</label>

</div>

</div>

<div class="form-actions">

<a class="btn" href="index.php">Back</a>

</div>

</div>

</div>

</div> <!-- /container -->

</body>

</html>

**update.php**

<?php

require 'database.php';

$id = null;

if ( !empty($\_GET['id'])) {

$id = $\_REQUEST['id'];

}

if ( null==$id ) {

header("Location: index.php");

}

if ( !empty($\_POST)) {

// keep track validation errors

$nameError = null;

$emailError = null;

$mobileError = null;

// keep track post values

$name = $\_POST['name'];

$email = $\_POST['email'];

$mobile = $\_POST['mobile'];

// validate input

$valid = true;

if (empty($name)) {

$nameError = 'Please enter Name';

$valid = false;

}

if (empty($email)) {

$emailError = 'Please enter Email Address';

$valid = false;

} else if ( !filter\_var($email,FILTER\_VALIDATE\_EMAIL) ) {

$emailError = 'Please enter a valid Email Address';

$valid = false;

}

if (empty($mobile)) {

$mobileError = 'Please enter Mobile Number';

$valid = false;

}

// update data

if ($valid) {

$pdo = Database::connect();

$pdo->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);

$sql = "UPDATE customers set name = ?, email = ?, mobile =? WHERE id = ?";

$q = $pdo->prepare($sql);

$q->execute(array($name,$email,$mobile,$id));

Database::disconnect();

header("Location: index.php");

}

} else {

$pdo = Database::connect();

$pdo->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);

$sql = "SELECT \* FROM customers where id = ?";

$q = $pdo->prepare($sql);

$q->execute(array($id));

$data = $q->fetch(PDO::FETCH\_ASSOC);

$name = $data['name'];

$email = $data['email'];

$mobile = $data['mobile'];

Database::disconnect();

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<link href="css/bootstrap.min.css" rel="stylesheet">

<script src="js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<div class="span10 offset1">

<div class="row">

<h3>Update a Customer</h3>

</div>

<form class="form-horizontal" action="update.php?id=<?php echo $id?>" method="post">

<div class="control-group <?php echo !empty($nameError)?'error':'';?>">

<label class="control-label">Name</label>

<div class="controls">

<input name="name" type="text" placeholder="Name" value="<?php echo !empty($name)?$name:'';?>">

<?php if (!empty($nameError)): ?>

<span class="help-inline"><?php echo $nameError;?></span>

<?php endif; ?>

</div>

</div>

<div class="control-group <?php echo !empty($emailError)?'error':'';?>">

<label class="control-label">Email Address</label>

<div class="controls">

<input name="email" type="text" placeholder="Email Address" value="<?php echo !empty($email)?$email:'';?>">

<?php if (!empty($emailError)): ?>

<span class="help-inline"><?php echo $emailError;?></span>

<?php endif;?>

</div>

</div>

<div class="control-group <?php echo !empty($mobileError)?'error':'';?>">

<label class="control-label">Mobile Number</label>

<div class="controls">

<input name="mobile" type="text" placeholder="Mobile Number" value="<?php echo !empty($mobile)?$mobile:'';?>">

<?php if (!empty($mobileError)): ?>

<span class="help-inline"><?php echo $mobileError;?></span>

<?php endif;?>

</div>

</div>

<div class="form-actions">

<button type="submit" class="btn btn-success">Update</button>

<a class="btn" href="index.php">Back</a>

</div>

</form>

</div>

</div> <!-- /container -->

</body>

</html>