LAB FOR SESSION 19

PHP Programming

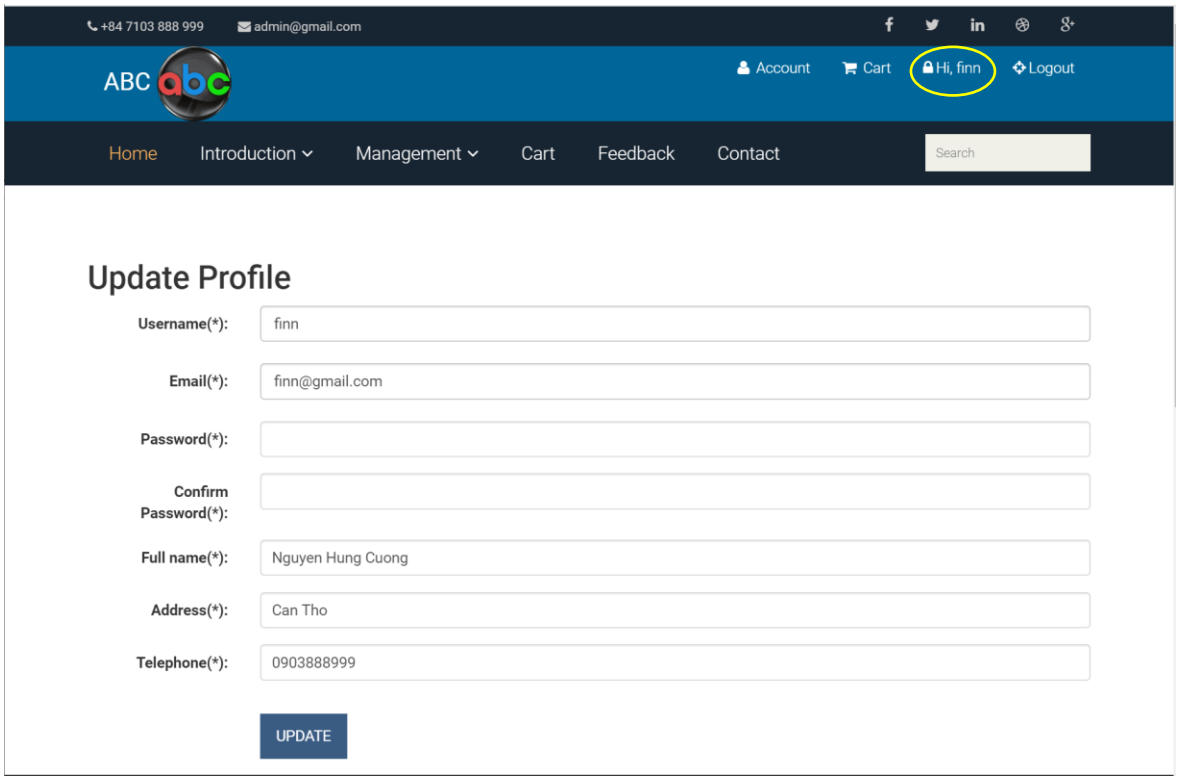
A. OBJECTIVES

1. Using session in PHP to update information
2. Understanding SQL Injection and XSS error.

B. STEP BY STEP EXERCISES

1. Create an account update page (update customer.php) that allows users to change their information after he/she logs in successfully:

   When clicking on the "Hi ..." link on the menu, the account update page (Update_customer.php) will be displayed with the interface below and the information of the user displayed:



   Note:

   o "Update_customer.php" page must be embedded in the homepage

   o Username and email is not modified.

   o Password does not need to display the current password.

   When users press the update button, please check the following information before updating information.

o The password and confirm password must be the same and must be md5 encrypted before saving to the database

o If the user does not enter a password, there is no need to update the password

Hint:

Step 1: Gets user data to display on form via session variable

```
//Get custmer information
$query = "SELECT CustName, Address, email, telephone
            FROM customer
            WHERE Username = '" . $_SESSION["us"] . "'";
    $result = mysqli_query($conn, $query) or die(mysqli_error($conn));
    $row = mysqli_fetch_array($result, MYSQLI_ASSOC);

    $us = $_SESSION["us"];
    $email = $row["email"];
    $fullname=$row["CustName"];
    $address = $row["Address"];
    $telephone = $row["telephone"];
```

Step 2: Display information on the form

```
<div class="form-group">
   <label for="lblEmail" class="col-sm-2 control-label">Email(*):  </label>
   <div class="col-sm-10">
        <label class="form-control" style="font-weight:400"><?php echo $email; ?></label>
   </div>
 </div>
```

```
<div class="form-group">
    <label for="lblHoten" class="col-sm-2 control-label">Full name(*):  </label>
    <div class="col-sm-10">
     <input type="text" name="txtFullname" id="txtFullname" value="<?php echo $fullname; ?>"
     class="form-control" placeholder="Enter Fullname, please"/>
    </div>
</div>
```

Step 3: Write a function to check the information

```
function check(){
    if($_POST['txtFullname']==""||$_POST['txtAddress']==""){
        return "<li>Enter Fullname or Address</li>";
    }
    elseif(strlen($_POST['txtPass1'])>0 && strlen($_POST['txtPass1'])<=5){
        return "<li>Password is greater than 5 characters</li>";
    }
    elseif($_POST['txtPass1']!=$_POST['txtPass2'])
    {
        return "<li>Password and Confirm Pass do not match</li>";
    }
    else{
        return "";
    }
}
```

Step 4: Update information when the user presses the "Update" button

```php
//Update information when the user presses the "Update" button
if(isset($_POST['btnUpdate'])){
    $fullname=$_POST['txtFullname'];
    $address = $_POST['txtAddress'];
    $tel = $_POST['txtTel'];

    $test = check();
    if($test==""){
        //Customer changes password
        if($_POST['txtPass1']!=""){
            $pass = md5($_POST['txtPass1']);

            $sq =  "UPDATE customer
            SET CustName='$fullname', Address='$address',
            telephone='$telephone', Password='$pass'
            WHERE Username = '" . $_SESSION['us'] . "'";

            mysqli_query($conn,$sq) or die(mysqli_error($conn));
        }
        //Customer does not change password
        else{
                $sq =  "UPDATE customer
                SET CustName='$fullname', Address='$address',
                telephone='$telephone' WHERE Username = '" . $_SESSION['us'] . "'";
                mysqli_query($conn, $sq) or die(mysqli_error($conn));
        }
        echo '<meta http-equiv="refresh" content="0;URL=index.php"/>';
    }else{
        echo $test;
    }
}
```

2. Perform an attack on the site using SQL Injection to successfully login to the system

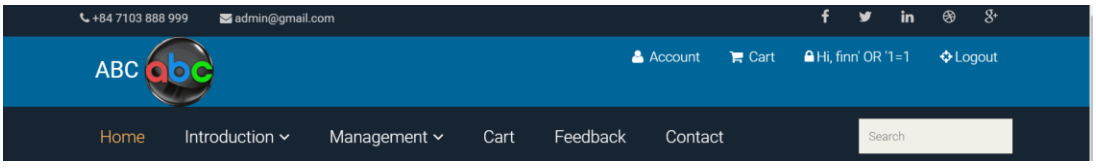
   Hint:

   From the login form and enter the following information:

   Username: **finn' OR '1=1**

   (Where: finn is account in database)

   Password: type any thing



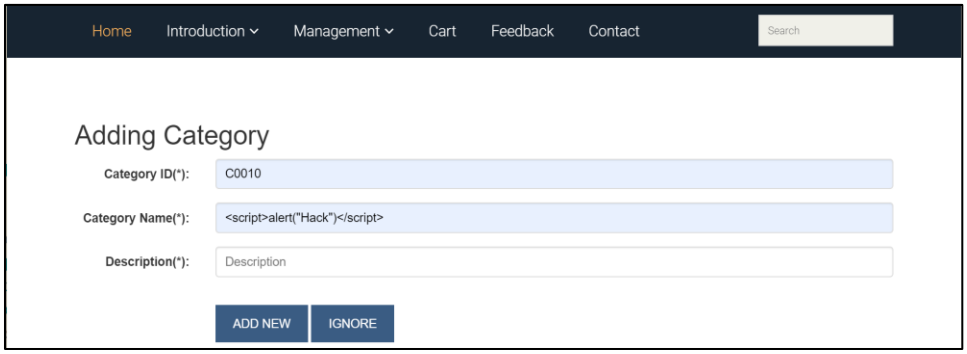
   Fix error: Using mysqli_real_escape_string()

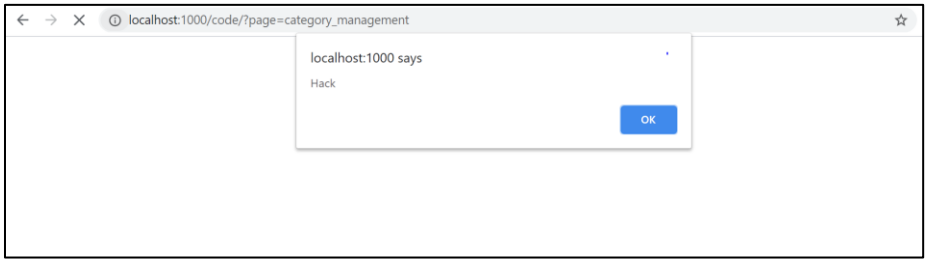
```php
$us = mysqli_real_escape_string($conn, $us);
```

3. Perform XSS website attacks using <script> tags

   Hint:

From the Add_Category.php page, enter the information as shown below:





Fix error: Prevent XSS from using the htmlspecialchars () function

```
else{
    $id = htmlspecialchars(mysqli_real_escape_string($conn, $id));
    $name = htmlspecialchars(mysqli_real_escape_string($conn, $name));
    $des = htmlspecialchars(mysqli_real_escape_string($conn, $des));
    $sq="Select * from category where Cat_ID='$id' or Cat_Name='$name'";
    $result = mysqli_query($conn,$sq);
    if(mysqli_num_rows($result)==0)
    {
        mysqli_query($conn, "INSERT INTO category (Cat_ID, Cat_Name, Cat_Des) VALUES ('$id','$name','$des')");
        echo '<meta http-equiv="refresh" content="0;URL=Category_Management.php"/>';
    }
    else
    {
        echo "<li>Duplicate category ID or Name</li>";
    }
}
```