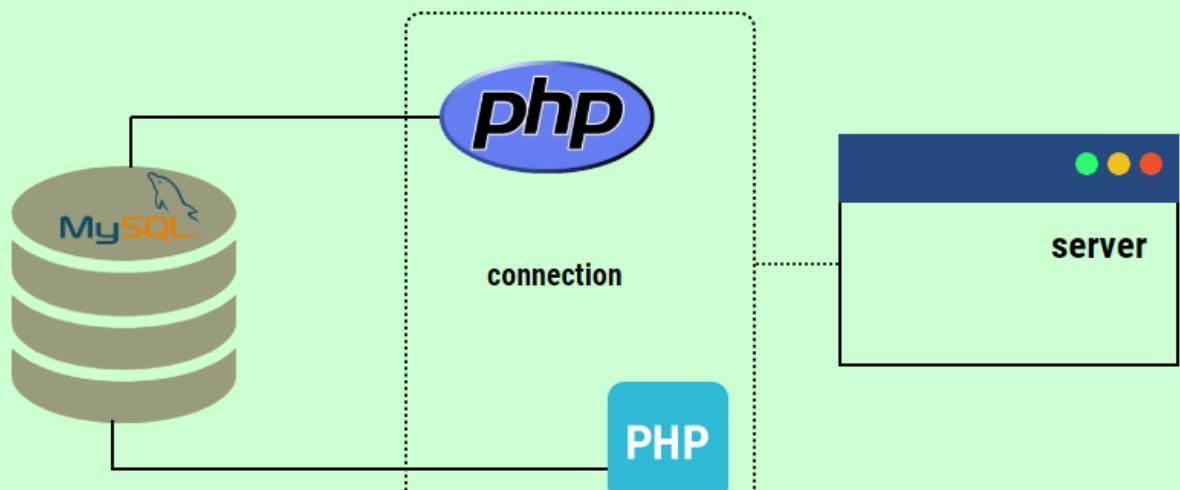




“អនុវត្តន៍ និង IT សម្រាប់អ្នក”

PHP Database Connection



គែល់ស្ថាប់ Crud & MySQL

រៀបរាប់ដោយ:

ក្រុមរបៀបធម្មជ្រើន

អនុបណ្ឌិត RUPP, TKU

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ឯកសារលេខកម្មសាន្ត CRUDB PHP

I. ចូលរួមបង្កើត MySQL DATABASE ?

MySQL គឺជាប្រភេទប្រភេទ Database លក្ខណៈជាការ Open Source ដែលបង្កើតឡើងដោយក្រុម Oracle ដែលវាយតាមដំណឹក នាងដៃកែវ Server Side លក្ខណៈជាការ Relational Database Management System (RDBMS) ដែលមានភាពពេញលេញ ឬប្រើប្រាស់ជាមួយលិនិន PHP ដែលអ្នករាជប្រើប្រាស់ជាមួយលិនិន ភាសា SQL (Structure Query Language) ។

II. ការក្រុមបានរួម MySQL Database

នៅក្នុងការភ្លាច់ PHP 8 តើអាចភ្លាច់រាយតាមពីររបៀប ៖

- ❖ MySQLi extension (the i stand for improved) ៖ ភាជ្ញាប់ឆ្នាប់បានតែជាមួយលិនិន MySQL Database ហើយវាយតាមការពារពីការ Hack ដោយប្រើប្រាស់នូវ SQL Injection Concept របស់វាប្រើប្រាស់នូវ OOP ។
- ❖ PDO (PHP Data Object) ៖ ភាជ្ញាប់ជាមួយលិនិនប្រភេទ Database បាន ១៧ ហើយដឹងឱ្យការរបស់រាយតាមភាពនោយស្មួល និងរហូតដែល PDO ភាជការពារពីការ Hack ដោយប្រើប្រាស់នូវ SQL Injection Concept របស់វាប្រើប្រាស់នូវ OOP ។



ឧច្ចាស់ទី ១៖(MySQLi object-Oriented)

```
php conection.php > ...
1  <?php
2      $servername = "localhost";
3      $username = "root";
4      $password = "";
5      $db_name = "ETECPHP";
6      $con = new mysqli($servername,$username,$password,$db_name);
7      if($con == TRUE){
8          echo '<script>alert("Connected...!")</script>';
9      }else{
10         echo '<script>alert("Error...!")</script>';
11     }
12 ?>
```

ឧច្ចាស់ទី ២៖(MySQLi Procedural របៀបចូលទឹក Function mysqli_connect)

```
php conection.php > ...
1  <?php
2      $servername = "localhost";
3      $username = "root";
4      $password = "";
5      $db_name = "ETECPHP";
6      $con = mysqli_connect($servername,$username,$password,$db_name);
7      // check connection
8      if($con == TRUE){
9          echo '<script>alert("Connected...!")</script>';
10     }else{
11         echo '<script>alert("Error...!")</script>';
12     }
13 ?>
```



ឧបនោរណ៍ ពាន់(PDO)

```
PHP conection.php X
PHP conection.php > ...
1  <?php
2  $servername = "localhost";
3  $username = "root";
4  $password = "";
5  $db_name = "etecphp";
6  try {
7      $conn = new PDO("mysql:host=$servername;dbname=$db_name", $username, $password);
8      // set the PDO error mode to exception
9      $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
10     echo "Connected successfully";
11 } catch(PDOException $e) {
12     echo "Connection failed: " . $e->getMessage();
13 }
14 ?>
```

III. គារច្បៃទិន្នន័យ MySQL(DATABASE)

- ការបញ្ចូលទិន្នន័យទៅកាល Database ដូចការចេញព័ត៌មាន ឬក្រុមដែលមានប្រភេទទិន្នន័យជាពាណិជ្ជកម្ម។ ទិន្នន័យជាទិន្នន័យអាមេរិក (VARCHAR(255),Text) ឬទិន្នន័យជាបច្ចុប្បន្ន (INT) ឬទិន្នន័យជាបច្ចុប្បន្នតាមការបញ្ចូលព័ត៌មាន (FLOAT,DOUBLE) ឬទិន្នន័យជាបច្ចុប្បន្នពេលវេលា (TIME) ឬទិន្នន័យជាបច្ចុប្បន្នពេលវេលា (DATE) ជាដើម្បី



ឧទាហរណ៍ ១: ការបញ្ចូលទិន្នន័យមួនចាន់ Record

```
PHP conection.php X
PHP conection.php > ...
1  <?php
2      $servername = "localhost";
3      $username = "root";
4      $password = "";
5      $db_name = "etecphp3";
6      $con = mysqli_connect($servername,$username,$password,$db_name);
7      $sql_insert = "INSERT INTO `tbl_student`"
8          (`id`, `name`, `gender`, `address`, `score`)
9          VALUES (null,'Dara','male','kompong cham','100.5')";
10     $result_insert = $con->query($sql_insert);
11     if($result_insert == TRUE){
12         echo '
13             | INSERT SUCCESSS ...!
14         ';
15     }else{
16         echo 'INVALID FOR INSERT...!';
17     }
18 ?>
```

ឧទាហរណ៍ ២: ការបញ្ចូលទិន្នន័យមួនចាន់ត្រួតពិនិត្យ Record

```
PHP conection.php X
PHP conection.php > ...
1  <?php
2      $servername = "localhost";
3      $username = "root";
4      $password = "";
5      $db_name = "etecphp3";
6      $con = mysqli_connect($servername,$username,$password,$db_name);
7      $sql_insert = "INSERT INTO `tbl_student`"
8          (`id`, `name`, `gender`, `address`, `score`)
9          VALUES (null,'bopha','female','kompong cham','90.5'),
10         (null,'kanha','female','kompong cham','70.5'),
11         (null,'kakda','male','takeo','50')";
12     $result_insert = $con->query($sql_insert);
13     if($result_insert == TRUE){
14         echo '
15             | INSERT SUCCESSS ...!
16         ';
17     }else{
18         echo 'INVALID FOR INSERT...!';
19     }
20 ?>
```

ការទាញយកទិន្នន័យចេញពីក្នុង Database មកបង្ហាញនូវលេខវិគុណនៃ Webpage ។ ខាងក្រោមនេះ
បង្ហាញពីទំនួរការទាញយកទិន្នន័យចេញមកបង្ហាញនូវ
ឧបាទរណី ១៖ បង្ហាញទិន្នន័យទាំងអស់

```
<body>
    <div class="container mt-3">
        <a href="insert.php" class="btn btn-lg btn-danger mb-2">Add More Students</a>
        <h2>
            View ALL Students</h2>
        <table class="table table-hover table-bordered">
            <tr class="table-danger">
                <th>ID</th>
                <th>Name</th>
                <th>Gender</th>
                <th>Address</th>
                <th>Score</th>
                <th>Action</th>
            </tr>
            <?php
                $servername = "localhost";
                $username = "root";
                $password = "";
                $db_name = "etecphp3";
                $con = mysqli_connect($servername, $username, $password, $db_name);

                $sql_select = "SELECT * FROM `tbl_student` ";
                // execute/query()
                $result_select = $con->query($sql_select);
                //loop
                // mysqli_fetch_assoc()
                while ($row = mysqli_fetch_assoc($result_select)) {
                    echo '
                        <tr>
                            <td>' . $row['id'] . '</td>
                            <td>' . $row['name'] . '</td>
                            <td>' . $row['gender'] . '</td>
                            <td>' . $row['address'] . '</td>
                            <td>' . $row['score'] . '</td>
                            <td>
                                <a class="btn btn-success">Update</a>
                                <a class="btn btn-danger">Delete</a>
                            </td>
                        </tr>
';
                }
            ?>
        </table>
    </div>
```



លទ្ធផលទិន្នន័យបានកើតឡើង

| View ALL Students | | | | | | |
|-------------------|-------|--------|--------------|-------|------------------------|------------------------|
| ID | Name | Gender | Address | Score | Action | |
| 1 | Dara | male | kompong cham | 100.5 | Update | Delete |
| 2 | chana | f | pp | 100 | Update | Delete |
| 3 | chana | f | pp | 100 | Update | Delete |
| 4 | bopha | female | kompong cham | 90.5 | Update | Delete |

ឧចាបារណ៍មេ នៃបញ្ជាព្យាណទិន្នន័យជាមួយលក្ខខណ្ឌ WHERE

```
<?php
    $servername = "localhost";
    $username = "root";
    $password = "";
    $db_name = "etecphp3";
    $con = mysqli_connect($servername, $username, $password, $db_name);
    $sql_select = "SELECT * FROM `tbl_student` WHERE address = 'kompong cham'";
    // execute/query()
    $result_select = $con->query($sql_select);
    //loop
    // mysqli_fetch_assoc()
    while ($row = mysqli_fetch_assoc($result_select)) {
        echo '
            <tr>
                <td>' . $row['id'] . '</td>
                <td>' . $row['name'] . '</td>
                <td>' . $row['gender'] . '</td>
                <td>' . $row['address'] . '</td>
                <td>' . $row['score'] . '</td>
                <td>
                    <a class="btn btn-success">Update</a>
                    <a class="btn btn-danger">Delete</a>
                </td>
            </tr>
        ';
    }
?>
```



លទ្ធផលទូទាត់លម្អិត

| View ALL Students With Condition WHERE | | | | | |
|--|-------|--------|--------------|-------|---|
| ID | Name | Gender | Address | Score | Action |
| 1 | Dara | male | kompong cham | 100.5 | <button>Update</button> <button>Delete</button> |
| 4 | bopha | female | kompong cham | 90.5 | <button>Update</button> <button>Delete</button> |

លំហាត់អនុវត្តន៍ ទី១

The screenshot shows a promotional landing page for Wing Bank. At the top, there's a banner for a competition called "របៀបចាប់រកសេដ្ឋកិច្ច យុវជន" (How to Start a Business for Young People) featuring a white SUV and a woman standing next to it. Below the banner, there are five tabs in Khmer: "កម្មាធុត" (Job), "បច្ចេកវិទ្យា" (Education), "ជីវិតនិធសដ្ឋុម" (Business), "គីឡូ" (Globe), and "ផ្ទាល់ខ្សែសុំ" (Entertainment). A blue arrow points from the "Register Form" section below to the "Add New" button in the table above.

| Firstname | Lastname | Address |
|-----------|--------------|---------------|
| neovic | devierte | silay city |
| dee | tolentino | bacolod city |
| julyn | divinagracia | eb magalona |
| | ann | employee sudb |

Register Form

First name:

Last name:

Address:





លំហាត់អនុវត្តន៍ ទី២

Wing Bank របៀបការទេសចរណ៍
ឈ្មោះការទេដី
ឈ្មោះការទេដី! LEXUS LX600

កម្មាន់ បច្ចេកវិទ្យា ជីវិតិធមសធ្វើ គិទ្យា ធ្វើនៅក្រែងក្រាម

| Firstname | Lastname | Address | Action |
|-----------|--------------|---------------|-----------------|
| neovic | devierte | silay city | Edit Delete |
| dee | tolentino | bacolod city | Edit Delete |
| julyn | divinagracia | eb magalona | Edit Delete |
| lee | ann | employee subb | Edit Delete |

លំហាត់អនុវត្តន៍ទី ៣ (ស្តីពូល Website មន្ទាថ្មីថ្មី)

ដោយអនុវត្តន៍លើការបង្កាញបញ្ជាផ្លាមធនធាន PHP ក្នុងការបង្កាញពាណិជ្ជកម្ម

លក្ខណៈដូចខាងក្រោម៖

- ១) ក្នុងការបង្កាញពាណិជ្ជកម្ម តាប់ដើមដោយអក្សរ P បុ យកទាំងអស់ តែបញ្ចប់ដោយអក្សរ Y ?
- ២) ក្នុងការបង្កាញពាណិជ្ជកម្ម នៅលើតើតុកដៃទាំងអស់ ពី Record?
- ៣) ក្នុងការបង្កាញពាណិជ្ជកម្ម តែ ៥ Record មួន ក្នុងការបង្កាញពាណិជ្ជកម្ម តែបញ្ចប់ដោយតាម first_Name

1. ការលើបទិន្នន័យមិនត្រូវ Database ទៅតាមលក្ខណៈណូមួយច្បាស់លាស់

ឧទាហរណ៍៖

```
<?php
    $servername = "localhost";
    $username = "root";
    $password = "";
    $db_name = "etecphp3";
    $con = mysqli_connect($servername, $username, $password, $db_name);
    $sql_delete = "DELETE FROM `tbl_student` WHERE id=2";
    $result_delete = $con->query($sql_delete);
    if($result_delete == TRUE){
        echo '<script>alert("DELETE SUCCESS...!")</script>';
    }else{
        echo '<script>alert("DELETE IS FAILED...!")</script>';
    }
?

?>
```

2. ការកែត្រាលើមិនត្រូវ Database ទៅតាមលក្ខណៈណូមួយច្បាស់លាស់

```
58 <?php
59     $servername = "localhost";
60     $username = "root";
61     $password = "";
62     $db_name = "etecphp3";
63     $con = mysqli_connect($servername, $username, $password, $db_name);
64     $sql_update = "UPDATE `tbl_student` SET
65                     `name`='koko', `gender`='male', `address`='kanda', `score` =60.5
66                     WHERE id=4";
67     $result_update = $con->query($sql_update);
68     if($result_update == TRUE){
69         echo '<script>alert("UPDATE SUCCESS...!")</script>';
70     }else{
71         echo '<script>alert("UPDATE IS FAILED...!")</script>';
72     }
73
74 ?>
```



លំនាចសម្រាប់អនុវត្តន៍ទី១

ផ្សេងៗការបង្កើតtable មួយណែនាំtbl_student នៃក្នុងDatabase ETECPHPដែលរាជបញ្ញាល បង្ហាញ ឬបន្ថធនកិច្ចនៅលើ ។

INSERT NEW STUDENTS

Name

Gender male female

Address

Score

➤ Connection %

```
connection.php > ...
1  <?php
2      $server_name = "localhost"; //server_name
3      $username = "root"; //username_name
4      $password = ""; //password
5      $db_name = "etecphp"; //db_name
6      // mysqli_connect()
7      //new mysqli()
8      $connect = mysqli_connect($server_name,$username,$password,$db_name);
9      // if($connect == TRUE){
10     //    echo "Connected...!";
11     // }else{
12     //    echo "Error....!";
13     // }
14 ?>
```



➤ បញ្ជីបញ្ជីលេខ ៩

```
<div class="container mt-2">
    <h2 class="bg-primary p-2 d-flex text-center justify-content-center text-light">INSERT NEW STUDENTS</h2>
    <form action="" method="post">
        <label for="" class="form-label">Name</label>
        <input type="text" name="name" id="" class="form-control">
        <label for="" class="form-label">Gender &nbsp; &nbsp;</label>
        <input type="radio" name="gender" id="" value="male">male
        <input type="radio" name="gender" id="" value="female">female
        <div class="form-group">
            <label for="">Address</label>
            <textarea id="" cols="30" rows="10" class="form-control" name="address"></textarea>
        </div>
        <label for="" class="form-label">Score</label>
        <input type="text" id="" class="form-control" name="score">
        <input type="submit" value="Submit" name="btn_submit" class="btn btn-danger mt-2">
        <a href="view.php" class="btn btn-primary mt-2">Back to View</a>
    </form>
</div>

51  </HTML>
52 <?php
53     include("connection.php");
54     if(isset($_POST['btn_submit'])){
55         $name = $_POST['name'];
56         $gender = $_POST['gender'];
57         // echo $gender;
58         $address = $_POST['address'];
59         $score = $_POST['score'];
60         $sql_insert = "INSERT INTO `tbl_student` (`name`, `gender`, `address`, `score`)
61                     VALUES('".$name."','".$gender."','".$address."','".$score."')";
62         $result_insert = $connect->query($sql_insert);
63         if($result_insert == TRUE){
64             echo '<script>alert("Insert Success...!")</script>';
65         }else{
66             echo '<script>alert("Error...!")</script>';
67         }
68     }
69 ?>
```



➤ បង្កើតអនុវត្តផល

```
view.php > ...
1 <?php
2     include("connection.php");
3     $title = "View";
4 ?>
5 <!DOCTYPE html>
6 <html lang="en">
7
8 <head>
9     <meta charset="UTF-8">
10    <meta http-equiv="X-UA-Compatible" content="IE=edge">
11    <meta name="viewport" content="width=device-width, initial-scale=1.0">
12    <title><?php echo $title; ?></title>
13    <link rel="stylesheet" href="bootstrap.min.css">
14 </head>
15
16 <body>
17     <div class="container mt-3">
18         <a href="insert.php" class="btn btn-lg btn-danger mb-2">Add More Students</a>
19         <h2 class="bg-primary p-2 d-flex justify-content-center text-light">View ALL Students</h2>
20     <table class="table table-hover table-bordered">
21         <tr class="table-danger">
22             <th>ID</th>
23             <th>Name</th>
24             <th>Gender</th>
25             <th>Address</th>
26             <th>Score</th>
27             <th>Action</th>
28         </tr>
29         <?php
30             $sql_select = "SELECT * FROM `tbl_student`";
31             // execute//query()
32             $result_select= $connect->query($sql_select);
33             //loop
34             // mysqli_fetch_assoc()
35             while($row = mysqli_fetch_assoc($result_select)){
36                 echo '
37                     <tr>
38                         <td>' . $row['id'] . '</td>
39                         <td>' . $row['name'] . '</td>
40                         <td>' . $row['gender'] . '</td>
41                         <td>' . $row['address'] . '</td>
42                         <td>' . $row['score'] . '</td>
43                         <td>
44                             <a href="update.php?id=' . $row['id'] . '" class="btn btn-success">Update</a>
45                             <a href="delete.php?id=' . $row['id'] . '" class="btn btn-danger">Delete</a>
46                         </td>
47                     </tr>
48                 ';
49             }
50         ?>
51     </table>
52 </div>
```



➤ លើបច្ចុន៍យោ ខេត្ត

```
<?php
    include("connection.php");
    $id = $_GET['id'];
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" href="bootstrap.min.css">
</head>
<body>
    <div class="container">
        <h3 class="bg-danger text-light p-2 mt-2 text-center">DELETE STUDENTS</h3>
        <form action="" method="post">
            <input type="hidden" name="id" value="<?php echo $id;?>">
            <p class="fs-3">Are You Sure to delete id = <?php echo $id;?>?</p>
            <a href="view.php" class="btn btn-lg btn-success">Back To View</a>
            <input type="submit" value="Delete" name="delete" class="btn btn-lg btn-primary">
        </form>
    </div>
</body>
</html>
<?php

23     </div>
24     </body>
25     </html>
26     <?php
27         if(isset($_POST['delete'])){
28             $id = $_POST['id'];
29             $sql_delete = "DELETE FROM `tbl_student` WHERE id=$id";
30             $result_delete = $connect->query($sql_delete);
31             if($result_delete == TRUE){
32                 header("location:view.php");
33             }else{
34                 echo '<sctipt>alert("Error...!")</sctipt>';
35             }
36         }
37     ?>
```

➤ កែត្របទិន្នន័យ៖

```
update.php > ...
1 <?php
2     include("connection.php");
3     $id = $_GET['id'];
4     $sql_select = "SELECT * FROM `tbl_student` WHERE id=$id";
5     $result_select = $connect->query($sql_select);
6     $row = mysqli_fetch_assoc($result_select);
7     $name = $row['name'];
8     // echo $name;
9     $gender = $row['gender'];
10    // echo $gender;
11    $address = $row['address'];
12    $score = $row['score'];
13    // echo $address."-".$score;
14
15 ?>
16 <!DOCTYPE html>
17 <html lang="en">
18 <head>
19     <meta charset="UTF-8">
20     <meta http-equiv="X-UA-Compatible" content="IE=edge">
21     <meta name="viewport" content="width=device-width, initial-scale=1.0">
22     <title>Update</title>
23     <link rel="stylesheet" href="bootstrap.min.css">
24 </head>
25 <body>
26 <div class="container">
27     <h4 class="bg-danger text-light text-center mt-2 p-2">Update Students</h4>
28     <form action="" method="post">
29         <input type="hidden" name="id" value="<?php echo $id;?>"> <br>
30         <label for="" class="form-label">Name</label>
31         <input type="text" name="name" value="<?php echo $name;?>">
32         <label for="" class="form-label">Gender</label>
33         <input checked="" type="radio" name="gender" value="M"> Male <input type="radio" name="gender" value="F"> Female
34         <label for="" class="form-label">Address</label>
35         <input type="text" name="address" value="<?php echo $address;?>">
36         <label for="" class="form-label">Score</label>
37         <input type="text" name="score" value="<?php echo $score;?>">
38         <input type="submit" value="Update" class="btn btn-primary" />
39     </form>
40 </div>
```



```
<label for="" class="form-label">Name</label>
<input type="text" name="name" id="" class="form-control" value=<?php echo $name; ?>>
<label for="" class="form-label">Gender  &ampnbsp&ampnbsp</label>
<?php
    if($gender == "male"){
        echo '
            <input type="radio" name="gender" id="" value="male" checked>male
            <input type="radio" name="gender" id="" value="female">female
        ';
    }else{
        echo '
            <input type="radio" name="gender" id="" value="male">male
            <input type="radio" name="gender" id="" value="female" checked>female
        ';
    }
?>

<div class="form-group">
    <label for="">Address</label>
    <textarea id="" cols="30" rows="10" class="form-control" name="address"><?php echo $address; ?></textarea>
</div>
<label for="" class="form-label">Score</label>
<input type="text" id="" class="form-control" name="score" value=<?php echo $score; ?>>
<input type="submit" value="Update" name="btn_update" class="btn btn-danger mt-2">
<a href="view.php" class="btn btn-primary mt-2">Back to View</a>
</form>
</div>
```

```
<?php
    if(isset($_POST['btn_update'])){
        $id_edit = $_POST['id'];
        // echo $id_edit;
        $name_edit = $_POST['name'];
        $gender_edit = $_POST['gender'];
        $address_edit = $_POST['address'];
        $score_edit = $_POST['score'];
        $sql_update = "UPDATE `tbl_student` SET `name`='".$name_edit."', `gender`='".$gender_edit."', `address`='".$address_edit."', `score`='".$score_edit."' WHERE id=$id_edit";
        $result_update = $connect->query($sql_update);
        if($result_update == TRUE){
            echo '<script>alert("UPDATE SUCCESS...!")</script>';
        }else{
            echo '<script>alert("ERROR ...!")</script>';
        }
    }
?>
```



ផ្នែករបាយការណ៍អនុវត្តន៍

ផ្សេងៗរបាយការណ៍ មួយលេខា:tbl_image(id,name,image) គ្នានេះ Upload Image នៅក្នុងDatabase

ETEC PHP ដែលរាយចក្ខុល បង្ហាញ ឬបន្ថិនកំណើនលើយ Using Form Model in link:

<https://getbootstrap.com/docs/5.1/components/modal/>

| ID | Name |
|----|------|
| 11 | hhds |
| 10 | tola |
| 6 | mari |
| 4 | demo |



➤ បង្កើតក្នុងឯកសារ

```
view.php  X

view.php > html > body > div.container.mt-2 > button#add.btn.btn-lg.btn-primary.mb-2
1  <?php
2      include('function.php');
3  ?>
4  <!DOCTYPE html>
5  <html lang="en">
6  <head>
7      <meta charset="UTF-8">
8      <meta http-equiv="X-UA-Compatible" content="IE=edge">
9      <meta name="viewport" content="width=device-width, initial-scale=1.0">
10     <title>Document</title>
11     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-gQ29O9xO" crossorigin="anonymous">
12     <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.2/css/all.min.css">
13 </head>
14 <body>
15     <div class="container mt-2">
16         <button type="button" id="add" class="btn btn-lg btn-primary mb-2" data-bs-toggle="modal" data-bs-target="#exampleModal"><i class="fa-solid fa-plus"></i> Add More Student</button>
17         <table class="table table-hover table-bordered">
18             <thead>
19                 <tr class="table-danger">
20                     <th>ID</th>
21                     <th>Name</th>
22                     <th>Image</th>
23                     <th>Action</th>
24                 </tr>
25             </thead>
26             <tbody>
27                 <?php
28                     $sql_view = "SELECT * FROM `tbl_image` ORDER BY id DESC";
29                     $result_view = $con->query($sql_view);
30                     while($row = mysqli_fetch_assoc($result_view)){
31                         echo '
32                         <tr>
33                             <td>'.$row['id'].'</td>
34                             <td>'.$row['name'].'</td>
35                             <td>
36                                 
37                             <td>
38                                 <button type="button" id="update" class="btn btn-sm btn-danger" data-bs-toggle="modal" data-bs-target="#exampleModal"><i class="fa-solid fa-pen-to-square"></i> Update</button>
39                                 <form method="post" style="float:left; margin-right: 4px">
40                                     <input type="hidden" id="id" name="id" value="'.$row['id'].'">
41                                     <button type="submit" name="remove" class="btn btn-sm btn-primary">
42                                         <i class="fa-solid fa-delete-left"></i> Delete</button>
43                                 </form>
44                             </td>
45                         </tr>
46                     ';
47                 }
48             </tbody>
49         </table>
50     </div>
```

រៀបចំដោយសាស្ត្រចាយ: នគរបាលអនុបណ្ឌិតព័ត៌មានវិទ្យា ឯកទេសបង្កើតកម្មវិធី

H/P: 096 226 888 4 / 077 35 8884 Email: eteccenter@yahoo.com



```

53 <!-- Modal -->
54 <div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
55   <div class="modal-dialog">
56     <div class="modal-content">
57       <div class="modal-header">
58         <h5 class="modal-title" id="exampleModalLabel">Add More Student Information</h5>
59         <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
60       </div>
61       <div class="modal-body">
62         <form action="" method="post" enctype="multipart/form-data">
63
64           <div class="form-group">
65             <label for="" class="form-label">Name</label>
66             <input type="text" name="name" id="name" class="form-control">
67           </div>
68           <div class="mb-3">
69             <label for="formFile" class="form-label">Image</label>
70             <input class="form-control" type="file" name="image">
71           </div>
72           <input type="hidden" name="id" class="id">
73           <input type="hidden" name="thumbnail" id="image">
74         </div>
75         <div class="modal-footer">
76           <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>
77           <button type="submit" class="btn btn-primary" id="save" name="save">Save</button>
78           <button type="submit" class="btn btn-success" id="save-change" name="save-change">Save Change</button>
79         </div>
80       </form>
81     </div>
82   </div>
83 </div>
84 </body>
85 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
86 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ka7sk0Gln4gmtz2MlQnikT1wXgYs0g+OMhuP+IlRH9sENBO0LRn5q+8nbTov4" crossorigin="anonymous"></script>

```

➤ បញ្ចូលទិន្នន័យ ខែ

```

function.php ✘
function.php > PHP Intelephense > ⚡ update_student
1   <script src="https://unpkg.com/sweetalert/dist/sweetalert.min.js"></script>
2   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
3   <?php
4       $con = new mysqli("localhost","root","","etecphp");
5       // @save_student
6       function save_student(){
7           global $con;
8           if(isset($_POST['save'])){
9               // echo "1234";
10              $name = $_POST['name'];
11              // echo $name;
12              $filename = rand(1,99999)."-".$_FILES['image']['name'];
13              // echo $filename;
14              $path_name = "image/".$filename;
15              move_uploaded_file($_FILES['image']['tmp_name'],$path_name);
16              $sql_add = "INSERT INTO `tbl_image`(`name`, `image`) VALUES ('".$name."','".$filename."')";
17              $result_add = $con->query($sql_add);
18              if($result_add == TRUE){
19                  echo '
20                  <script>
21                      $(document).ready(function(){
22                          swal({
23                              title: "INSERT SUCCESS...!",
24                              text: "You clicked the button!",
25                              icon: "success",
26                              button: "OK",
27                          });
28                      });
29                  </script>
30                  ';
31              }
32          }
33      save_student();
34      // @remove_student

```

➤ លើបច្ចុន្តែង៖

```
35 // @remove_student
36 function remove_student(){
37     global $con;
38     if(isset($_POST['remove'])){
39         $id = $_POST['id'];
40         $sql_remove = "DELETE FROM `tbl_image` WHERE id=$id";
41         $result_remove = $con->query($sql_remove);
42         if($result_remove == TRUE){
43             echo '
44             <script>
45                 $(document).ready(function(){
46                     swal({
47                         title: "DELETE SUCCESS...!",
48                         text: "You clicked the button!",
49                         icon: "success",
50                         button: "OK",
51                     });
52                 });
53             </script>
54             ';
55         }
56     }
57 }
58 remove_student();
```

➤ កែត្រួតពិនិត្យ

```
87 </html>
88 <script>
89     $(document).ready(function(){
90         $("#add").click(function(){
91             $("#save").show();
92             $("#save-change").hide();
93         });
94         // update
95         $("body").on("click","#update",function(){
96             $("#save").hide();
97             $("#save-change").show();
98             var id = $(this).parents("tr").find("td").eq(0).text();
99             var name = $(this).parents("tr").find("td").eq(1).text();
100            var image = $(this).parents("tr").find("td:eq(2) img").attr("alt");
101            // alert(image);
102            // alert(name);
103            // alert(id);
104            $(".id").val(id);
105            $("#name").val(name);
106            $("#image").val(image);
107        });
108    });
109 </script>
110
```



```
function.php > F11: intelephense > update_student
60     function update_student(){
61         global $con;
62         if(isset($_POST['save-change'])){
63             $id = $_POST['id'];
64             $name = $_POST['name'];
65             if($_FILES['image']['size'] == ''){
66                 $filename = $_POST['thumbnail'];
67                 // echo $filename;
68             }else{
69                 $filename = rand(1,99999)."-".$_FILES['image']['name'];
70             }
71             // echo $filename;
72             $path_name = "image/".$filename;
73             move_uploaded_file($_FILES['image']['tmp_name'],$path_name);
74         }
75
76         $sql_update = "UPDATE `tbl_image` SET `name`='".$name."', `image`='".$filename."' WHERE id=$id";
77         $result_update = $con->query($sql_update);
78         if($result_update == TRUE){
79             echo '
80             <script>
81             $(document).ready(function(){
82                 swal({
83                     title: "UPDATE SUCCESS...!",
84                     text: "You clicked the button!",
85                     icon: "success",
86                     button: "OK",
87                 });
88             </script>
89             ';
90         }else{
91             echo '
92             <script>
93             $(document).ready(function(){
94                 swal({
95                     title: "UPDATE IS FAILED...!",
96                     text: "You clicked the button!",
97                     icon: "error",
98                     button: "OK",
99                 });
100            });
101        </script>
102        ';
103    }
104 }
105
106 update_student();
107
108
109 ?>
110
```

```
function.php > F11: intelephense > update_student
83             text: "You clicked the button!",
84             icon: "success",
85             button: "OK",
86         });
87     );
88     </script>
89     ;
90 }else{
91     echo '
92     <script>
93     $(document).ready(function(){
94         swal({
95             title: "UPDATE IS FAILED...!",
96             text: "You clicked the button!",
97             icon: "error",
98             button: "OK",
99         });
100    );
101  </script>
102  ';
103 }
104 }
105
106 update_student();
107
108
109 ?>
110
```



ឧបករណ៍ទូទាត់

១. ផ្តល់សមត្ថភាព Table មេ្ញា: tbl_customer ដែលមាន Field id, name, email, phone, address
អាជីវកម្ម (INSERT), ចាយកញ្ចប់ (VIEW), កែតិនុវត្ថុ (UPDATE) និងលើកដាក់ (DELETE) ។

Customers

| # | Name | Email | Mobile | Address |
|---|--------------------|------------------------|------------|---------------------------------------|
| # | Christine Randolph | randolphc@gmail.com | 8389080183 | 2133 Hill Haven Drive Terra Street |
| # | Will Williams | willainswill@gmail.com | 8389080183 | 4567 Orphan Road WI |
| # | Demo Name | demo@gmail.com | 9876543210 | demo ad1 ademo ad2 |
| # | Steeve Rogers | steeve1@gmail.com | 9876547770 | 573 Pinewood Avenue MN |
| # | Melissa Gilbert | gilbert@gmail.com | 7845554582 | 1711 McKinley Avenue MA |



Add New

| Name | Email | Mobile | Address | Action |
|--------------------|------------------------|------------|---------------------------------------|--|
| Christine Randolph | randolphc@gmail.com | 8389080183 | 2133 Hill Haven Drive Terra Street | <button>Edit</button> <button>Delete</button> |
| Will Williams | willainswill@gmail.com | 8389080183 | 4567 Orphan Road WI | <button>Edit</button> <button>Delete</button> |
| Demo Name | demo@gmail.com | 9876543210 | demo ad1 ademo ad2 | <button>Edit</button> <button>Delete</button> |
| Steeve Rogers | steeve1@gmail.com | 9876547770 | 573 Pinewood Avenue MN | <button>Edit</button> <button>Delete</button> |

Register Form

Name:

Email:

Mobile:

Address:



១. ផ្តល់សម្រាប់ក្នុងបញ្ជី Table នេះ: stu_register ដើម្បីលមាន Field id, name, course, price នាមចរណៈ
(INSERT), បង្ហាញទិន្នន័យ(VIEW), កែតិន្នន័យ(UPDATE) និងលួចតិន្នន័យ(DELETE) using modal or
form create។

| ID | Name |
|----|---------|
| 1 | Dara |
| 2 | Monirom |



၆. ផ្តល់បញ្ជីក Database និង Table ដើមសរសេរក្នុងអាជបញ្ញា (INSERT), ចូលព្យាយិត្តន៍យ (VIEW), កែទិន្នន័យ (UPDATE) និងលួចទិន្នន័យ (DELETE) using modal ហើយ View ឱ្យ Front End ដឹងទានឯក។

មួយ

The screenshot displays a web-based e-commerce platform. At the top, there is a navigation bar with links: Home, Laptop, Desktop, Components, Accessories, PC Builder, and Contact Us. Below the navigation bar is a large banner featuring three MSI gaming laptops against a futuristic, glowing background.

Underneath the banner, there is a section titled "Products" containing six product cards arranged in two rows of three:

- Samsung Galaxy Z Fold 2**: An image of the foldable smartphone, price Rs. 249999.00/-, and an "Add To Cart" button.
- iPhone 12 Pro Max**: An image of the iPhone, price Rs. 187000.00/-, and an "Add To Cart" button.
- Samsung Galaxy S21 Ultra**: An image of the Samsung smartphone, price Rs. 155000.00/-, and an "Add To Cart" button.
- OnePlus 8T**: An image of the OnePlus smartphone, price Rs. 86000.00/-, and an "Add To Cart" button.
- Aduro Wireless Headphones**: An image of the headphones, price Rs. 4100.00/-, and an "Add To Cart" button.
- Dr. Martens Mens Patch**: An image of the boot, price Rs. 16000.00/-, and an "Add To Cart" button.



IV. ការប្រើ Ajax បង្កើត CRUD នៃគម្រោង Website

ឧទាហរណ៍៖ ចូរបង្កើត Table មួយណ៍ ដើម្បីលមាន Field ដូចជា id, name, gender, image ដើម្បីសរាយការណ៍ធម្មតាលទិន្នន័យ(INSERT), បង្ហាញទិន្នន័យ(VIEW), លុបទិន្នន័យ(DELETE), កែតិន្នន័យ(UPDATE) ។

➤ View ៖

```
</thead>
<tbody>
<?php
    $sql_select = "SELECT * FROM `tbl_ajax` ORDER BY id DESC";
    $result_select = $con->query($sql_select);
    while($row = mysqli_fetch_assoc($result_select)){
        echo '
        <tr>
            <td>'.$row['id'].'</td>
            <td>'.$row['name'].'</td>
            <td>'.$row['gender'].'</td>
            <td>
                
            </td>
            <td>
                <button class="btn btn-sm btn-outline-danger" data-bs-toggle="modal"
                    data-bs-target="#exampleModal" id="update">Update</button>
                <button class="btn btn-sm btn-outline-info" id="delete">Delete</button>
            </td>
        </tr>
    ';
}
?>

</tbody>
</table>
```



➤ ចាប់យករូបភាព ទៅ

```
<script>
$(document).ready(function(){
    $("#img").click(function(){
        $("#thumbnail").click();

    });
    // save thumbnail
    $("#thumbnail").change(function(){
        var form_data = new FormData();
        var files = $("#thumbnail")[0].files;
        // console.log(files);
        form_data.append("profile_thumbnail",files[0]);
        $.ajax({
            url:"save_image.php",
            data:form_data,
            type:"POST",
            cache:false,
            contentType:false,
            processData:false,
            success:function(param){
                // alert(param);
                $("#img").attr("src","img/"+param+"");
                $("#img_name").val(param);
            }
        });
    });
});
```

```
Get Started  PHP save_image.php.php X
PHP save_image.php.php > ...
1  <?php
2      $filename = rand(1,999999).".". $_FILES['profile_thumbnail']['name'];
3      $pathupload = "img/".$filename;
4      move_uploaded_file($_FILES['profile_thumbnail']['tmp_name'],$pathupload);
5      echo $filename;
6  ?>
```



➤ INSERT §

```
// save data
$("#save").click(function(){
    var name = $("#name").val();
    // alert(name);
    var gender = $("#gender").val();
    // alert(gender);
    var thumbnail = $("#img_name").val();
    // alert(thumbnail);

    $.ajax({
        url:"insert_data.php",
        type:"POST",
        data:{
            name:name,
            gender:gender,
            thumbnail:thumbnail
        },
        cache:false,
        success:function(){
            Swal.fire(
                'INSERT SUCCESS...!',
                'You clicked the button!',
                'success'
            )
        }
    });
});
```



```
<?php
    include("connection.php");
    $name = $_POST['name'];
    $gender = $_POST['gender'];
    $thumbnail = $_POST['thumbnail'];
    $sql_insert = "INSERT INTO `tbl_ajax` VALUES(null,'".$name."','".$gender."','".$thumbnail."')";
    $result_add = $con->query($sql_insert);

?>
```

➤ DELETE §

```
PHP delete_data.php > ...
1 <?php
2     include("connection.php");
3     $id=$_POST['id'];
4     $sql_delete = "DELETE FROM `tbl_ajax` WHERE id=$id";
5     $result_delete = $con->query($sql_delete);
6
7 ?>
```

➤ UPDATE §

```
//update-data
$("body").on("click","#update",function(){
    $("#save").hide();
    $("#edit").show();
    var id = $(this).parents("tr").find("td").eq(0).text()
    var name = $(this).parents("tr").find("td").eq(1).text();
    var gender = $(this).parents("tr").find("td").eq(2).text();
    var image = $(this).parents("tr").find("td: eq(3) img").attr("alt");

    // alert(gender);
    // alert(name);
    $("#id").val(id);
    $("#name").val(name);
    if(gender == 'male'){
        $("#gender").find("option").eq(0).attr("selected","selected");
    }else{
        $("#gender").find("option").eq(1).attr("selected","selected");
    }
    $("#img_name").val(image);
    $("#img").attr("src","img/"+image+"");
});
```



```
});  
// delete data  
$("body").on("click","#delete",function(){  
    var id = $(this).parents("tr").find("td:eq(0)").text();  
    // alert(id);  
    $.ajax({  
        url:"delete_data.php",  
        type:"POST",  
        data:{  
            id:id,  
        },  
        cache:false,  
        success:function(){  
            Swal.fire(  
                'DELETE SUCCESS...!',  
                'You clicked the button!',  
                'success'  
            )  
        }  
    });  
});
```

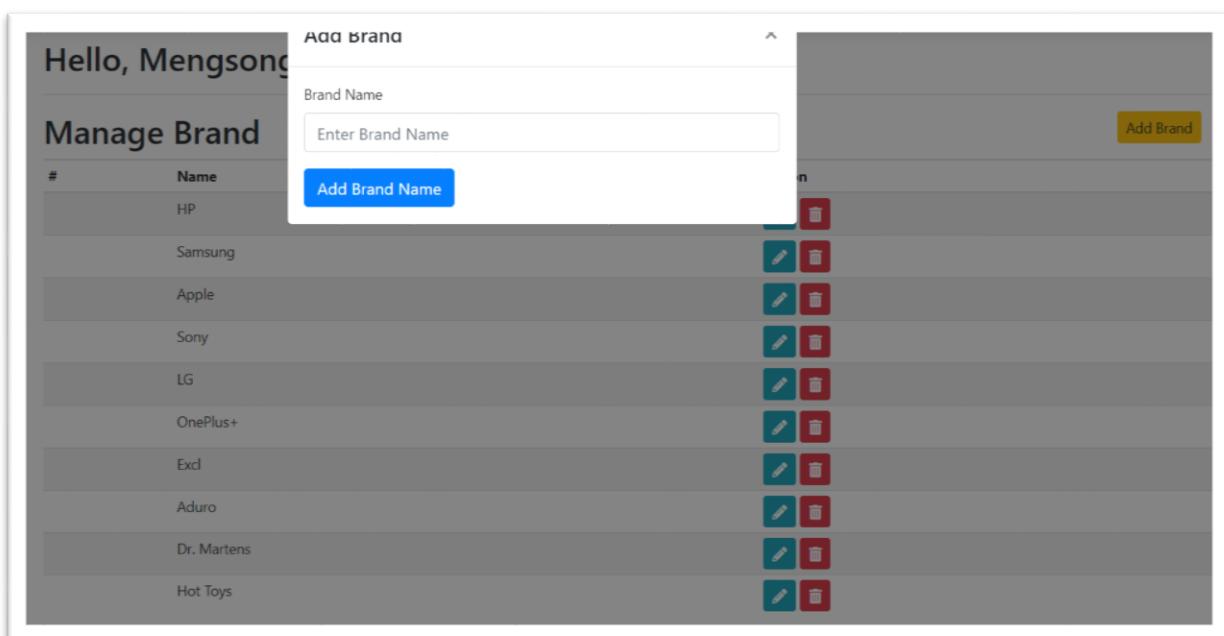


```
91 // editdat to database
92 $("body").on("click","#edit",function(){
93     var id = $("#id").val();
94     // alert(id);
95     var name = $("#name").val();
96     // alert(name);
97     var gender = $("#gender").val();
98     // alert(gender);
99     var image = $("#img_name").val();
100    // alert(image);
101    $.ajax({
102        url:"update_data.php",
103        type:"POST",
104        data:{
105            id:id,
106            name:name,
107            gender:gender,
108            image:image,
109        },
110        cache:false,
111        success:function(){
112            Swal.fire(
113                'UPDATE SUCCESS...!',
114                'You clicked the button!',
115                'success'
116            )
117        }
118    });
119 });
120 $("#add").click(function(){
121     $("#save").show();
122     $("#edit").hide();
123 });
124 });
125 });
126 </script>
```

```
update_data.php > ...
1 <?php
2     include("connection.php");
3     $id = $_POST['id'];
4     $name = $_POST['name'];
5     $gender = $_POST['gender'];
6     $image = $_POST['image'];
7     $sql_update = "UPDATE `tbl_ajax` SET `name`='".$name."', `gender`='".$gender."', `image`='".$image."'"
8             WHERE id=$id";
9     $result_update = $con->query($sql_update);
10
11 ?>
```

ନେତ୍ରକାଳୀମିତିଜୀବି

៩. ផ្តល់សមត្ថភាព (INSERT), បញ្ជាស្រួល (VIEW), កែតិវត្ថុ (UPDATE) និងលើកទិន្នន័យ (DELETE) Use Ajax ដើម្បីបង្កាត់ពាក្យខាងក្រោម





2. ផ្លាស់ស្រាវជ្រាវ តាមបញ្ជី (INSERT), ចន្ទាយទិន្នន័យ(VIEW), កែតិន្នន័យ(UPDATE) និងលើច
ទិន្នន័យ(DELETE) Use Ajax ដូចខាងក្រោម

| # | Name | Image | Price | Quantity | Category | Brand | Action |
|---|---------------------------|-------|--------|----------|-------------|-------------|--------|
| | Samsung Galaxy Z Fold 2 | | 249999 | 5 | Mobiles | Samsung | |
| | Iphone 12 Pro Max | | 187000 | 7 | Mobiles | Apple | |
| | Samsung Galaxy S21 Ultra | | 155000 | 10 | Mobiles | Samsung | |
| | OnePlus 8T | | 86000 | 13 | Mobiles | OnePlus+ | |
| | Aduro Wireless Headphones | | 4100 | 6 | Electronics | Aduro | |
| | Dr. Martens Mens Patch | | 16000 | 3 | Clothings | Dr. Martens | |
| | Mens Hoodie | | 3500 | 4 | Clothings | Excl | |
| | Thanos Hot Toys | | 8150 | 19 | Toys | Hot Toys | |

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3. ចូរសរស់រក្សាន់ តាមបញ្ជីល (INSERT), ចន្ទាយទិន្នន័យ(VIEW), កែទិន្នន័យ(UPDATE) និងលួច
ទិន្នន័យ(DELETE) Use Ajax ដើម្បីបង្រាក់ព្រាមនេះ



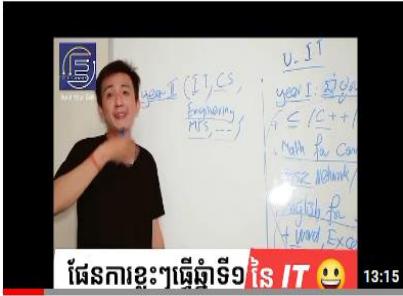
គណនីសវយដ្ឋីស

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Input Code:

Product Name:

Input Qty:

Input Price:

Product Stock order

| Code | Name | Qty | Price | Total |
|------|-------|-----|-------|-------|
| 1001 | ABC | 2 | 1.50 | 3.0 |
| 1002 | Tiger | 2 | 1.50 | 3.0 |
| 1003 | Coca | 2 | 1.50 | 3.0 |
| 1004 | Sting | 2 | 1.50 | 3.0 |

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ជំនាញអចូនភ្លែវ

The diagram illustrates a workflow starting from a user interface and ending with a database table.

User Interface Flow:

- A large orange arrow points from the "Registration" form on the right to the "Login" form on the left.
- A black arrow points from the "Products" tab on the navigation bar to the "Add a new product" form.
- A black arrow points from the "My Products" button on the right side of the "Add a new product" form to the "Products" table below it.

Registration Form (Right):

- Fields: Username*, Email*, Password*, Confirm Password*.
- Buttons: Sign up (orange), Login (yellow).

Login Form (Left):

- Fields: Username*, Password*.
- Buttons: Login (yellow).

Navigation Bar:

- PHP STORE
- Home > Products > Add a new product
- Messages, open the website, administrator

Products Table (Bottom):

| Category | Name | Description | Images | Price (\$) | Old Price (\$) | Action |
|---------------|------|-------------|------------------------------------|------------|----------------|--------|
| Please Select | | | Please Select or Drag & Drop Files | | | Submit |



គិតការិសនយោធីស

ទទួលការប្រាក់ការថ្លែខ្ពស់ បង្កើនសាច់ប្រាក់លោកអ្នករៀបចំផ្សេងៗ


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