



Ho Chi Minh City
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WEB PROGRAMMING

LAB 2.2 Work with DB using PHP and MySQLi

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I. Requirements

LAB 2.2 Work with DB using PHP and MySQLi (MariaDB)

- Write programming code in PHP to create a new DB with the name “OnlineStore”.
- Write programming code in PHP to create new tables: “products”, “users”.
- Write programming code to insert:
 - New products (with attributes: productID, productName, prices,)
 - New user accounts (with attributes: userID, username, password, ...). Make sure you insert hashed value of the passwords, not the plain text passwords.

Click on the link:

<http://localhost/index.php?page=products>

you will see a list of products, which you have stored in the table “products”.

Expected outcome: you complete the files:

- products.php

II. Implementation

- a. Write programming code in PHP to create a new DB with the name “OnlineStore”.

```
<?php
$dbServer = 'localhost';
$dbUser = 'root';
$dbPassword = '123456';

$conn = new mysqli($dbServer, $dbUser, $dbPassword);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Create a new database named "OnlineStore"
$sql = "CREATE DATABASE OnlineStore";
if ($conn->query($sql) === TRUE) {
    echo "Database created successfully";
} else {
    echo "Error creating database: " . $conn->error;
}

$conn->close();
?>
```

- b. Write programming code in PHP to create new tables: “products”, “users”.

```
<?php
$dbServer = 'localhost';
$dbUser = 'root';
$dbPassword = '123456';
$dbName = 'OnlineStore';

$conn = new mysqli($dbServer, $dbUser, $dbPassword, $dbName);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Create the "products" table
$sql = "CREATE TABLE products (
productID INT AUTO_INCREMENT PRIMARY KEY,
productName VARCHAR(255) NOT NULL,
price DECIMAL(10, 2) NOT NULL,
quantity INT NOT NULL
)";
```

```

if ($conn->query($sql) === TRUE) {
    echo "Table 'products' created successfully";
} else {
    echo "Error creating table: " . $conn->error;
}

// Create the "users" table
$sql = "CREATE TABLE users (
userID INT AUTO_INCREMENT PRIMARY KEY,
username VARCHAR(255) NOT NULL,
password VARCHAR(255) NOT NULL
)";

if ($conn->query($sql) === TRUE) {
    echo "Table 'users' created successfully";
} else {
    echo "Error creating table: " . $conn->error;
}

$conn->close();
?>

```

c. Write programming code to insert:

- New products (with attributes: productID, productName, prices,)
- New user accounts (with attributes: userID, username, password, ...). Make sure you insert hashed value of the passwords, not the plain text passwords

```

<?php
$dbServer = 'localhost';
$dbUser = 'root';
$dbPassword = '123456';
$dbName = 'OnlineStore';

$conn = new mysqli($dbServer, $dbUser, $dbPassword, $dbName);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Define an array of products to insert
$products = array(
    array("Product 1", 19.99, 100),
    array("Product 2", 29.99, 50),
    array("Product 3", 9.99, 75),
    array("Product 4", 33.99, 75),
    array("Product 5", 3000, 5),

```

```

        // Add more products as needed
    );

    // Loop through the array and insert each product
    foreach ($products as $product) {
        $productName = $product[0];
        $price = $product[1];
        $quantity = $product[2];

        // SQL query to insert a product
        $sql = "INSERT INTO products (productName, price, quantity) VALUES
('$productName', $price, $quantity)";

        if ($conn->query($sql) === TRUE) {
            echo "Product '$productName' inserted successfully<br>";
        } else {
            echo "Error inserting product '$productName': " . $conn->error .
"<br>";
        }
    }

    $conn->close();
?>

```

```

<?php
    $dbServer = 'localhost';
    $dbUser = 'root';
    $dbPassword = '123456';
    $dbName = 'OnlineStore';

    $conn = new mysqli($dbServer, $dbUser, $dbPassword, $dbName);

    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }

    // Define an array of users to insert
    $users = array(
        array("User1", password_hash("password1", PASSWORD_BCRYPT)),
        array("User2", password_hash("password2", PASSWORD_BCRYPT)),
        array("User3", password_hash("password3", PASSWORD_BCRYPT)),
        // Add more users as needed
    );

    // Loop through the array and insert each user
    foreach ($users as $user) {

```

```

$username = $user[0];
$hashedPassword = $user[1];

// SQL query to insert a user
$sql = "INSERT INTO users (username, password) VALUES ('$username',
'$hashedPassword')";

if ($conn->query($sql) === TRUE) {
    echo "User '$username' inserted successfully<br>";
} else {
    echo "Error inserting user '$username': " . $conn->error .
"<br>";
}
}

$conn->close();
?>

```

III. Result

a. Database OnlineStore

```

mysql> SHOW TABLES;
+-----+
| Tables_in_onlinestore |
+-----+
| products              |
| users                  |
+-----+
2 rows in set (0.00 sec)

mysql> SELECT * FROM users;
+-----+-----+-----+
| userID | username | password |
+-----+-----+-----+
| 1      | User1    | $2y$10$xjhVbHXYKsXWfxFrY4twRuVU3rL1DUGR10Hx08tIh9YDS0KRU8iLG |
| 2      | User2    | $2y$10$ebbJq1F4MoGW3yegQ.2mA008wIqECgI4s6oJF1YX3w/CCwf.z0Zwi |
| 3      | User3    | $2y$10$NQ1F9deWqsZT50GUKGDy7uxr30i0198DTuq2j/pZzkTS3n9SpHBou |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from products;
+-----+-----+-----+-----+
| productID | productName | price  | quantity |
+-----+-----+-----+-----+
| 1          | Product 1   | 19.99  | 100      |
| 2          | Product 2   | 29.99  | 50       |
| 3          | Product 3   | 9.99   | 75       |
| 4          | Product 4   | 33.99  | 75       |
| 5          | Product 5   | 3000.00 | 5        |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> |

```

b. product.php

NGUYEN MINH HUNG

LABHomeProductsLoginRegister

Products

ID	Name	Price	Quantity
1	Product 1	19.99	100
2	Product 2	29.99	50
3	Product 3	9.99	75
4	Product 4	33.99	75
5	Product 5	3000.00	5

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