Academic Task Number: 3   **Course code: CSE56D**

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Section: JK222

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Q.17 Build an online food ordering system that allows users to browse menus, place orders, and track delivery status.

Code :

```php
<?php
session_start();

// Database connection
$host = 'localhost';
$db = 'food_ordering_system';
$user = 'root';
$pass = '';

// Connect to MySQL and create the database and tables if they don't exist
$conn = new mysqli($host, $user, $pass);
if ($conn->connect_error) {
    die("Database connection failed: " . $conn->connect_error);
}

// Create the database if it doesn't exist
$conn->query("CREATE DATABASE IF NOT EXISTS $db");
$conn->select_db($db);

// Create tables if they don't exist
$conn->query("
CREATE TABLE IF NOT EXISTS users (
    id INT AUTO_INCREMENT PRIMARY KEY,
    username VARCHAR(50) NOT NULL,
    password VARCHAR(255) NOT NULL,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
```

```php
)");

$conn->query("
CREATE TABLE IF NOT EXISTS menu_items (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    price DECIMAL(8, 2) NOT NULL,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
)");

$conn->query("
CREATE TABLE IF NOT EXISTS orders (
    id INT AUTO_INCREMENT PRIMARY KEY,
    user_id INT,
    total_price DECIMAL(8, 2) NOT NULL,
    status ENUM('Pending', 'Preparing', 'Out for Delivery', 'Delivered') DEFAULT 'Pending',
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (user_id) REFERENCES users(id)
)");

$conn->query("
CREATE TABLE IF NOT EXISTS order_items (
    id INT AUTO_INCREMENT PRIMARY KEY,
    order_id INT,
    menu_item_id INT,
    quantity INT,
    price DECIMAL(8, 2),
    FOREIGN KEY (order_id) REFERENCES orders(id),
    FOREIGN KEY (menu_item_id) REFERENCES menu_items(id)
```

```php
)");


// Registration
if (isset($_POST['register'])) {

    $username = $_POST['username'];

    $password = password_hash($_POST['password'], PASSWORD_BCRYPT);

    $conn->query("INSERT INTO users (username, password) VALUES ('$username', '$password')");

    echo "User registered successfully!";
}


// Login
if (isset($_POST['login'])) {

    $username = $_POST['username'];

    $password = $_POST['password'];

    $result = $conn->query("SELECT * FROM users WHERE username='$username'");

    $user = $result->fetch_assoc();


    if ($user && password_verify($password, $user['password'])) {

        $_SESSION['user_id'] = $user['id'];

        echo "Logged in successfully!";

    } else {

        echo "Invalid username or password.";

    }
}


// Add to Cart
if (isset($_GET['add_to_cart'])) {

    $menu_item_id = $_GET['add_to_cart'];
```

```php
    if (!isset($_SESSION['cart'])) $_SESSION['cart'] = [];

    $_SESSION['cart'][] = $menu_item_id;

    echo "Item added to cart!";

}


// Place Order

if (isset($_POST['place_order'])) {

    $user_id = $_SESSION['user_id'];

    $total_price = 0;


    foreach ($_SESSION['cart'] as $item_id) {

        $item = $conn->query("SELECT * FROM menu_items WHERE id=$item_id")->fetch_assoc();

        $total_price += $item['price'];

    }


    $conn->query("INSERT INTO orders (user_id, total_price) VALUES ($user_id, $total_price)");

    $order_id = $conn->insert_id;


    foreach ($_SESSION['cart'] as $item_id) {

        $item = $conn->query("SELECT * FROM menu_items WHERE id=$item_id")->fetch_assoc();

        $conn->query("INSERT INTO order_items (order_id, menu_item_id, quantity, price) VALUES ($order_id, $item_id, 1, {$item['price']})");

    }


    unset($_SESSION['cart']);

    echo "Order placed successfully!";

}
```

```php
// Display Orders

if (isset($_GET['view_orders'])) {

    $user_id = $_SESSION['user_id'];

    $orders = $conn->query("SELECT * FROM orders WHERE user_id=$user_id");


    while ($order = $orders->fetch_assoc()) {

        echo "Order #{$order['id']} - Total: {$order['total_price']} - Status: {$order['status']}<br>";

    }

}

?>
```

```html
<!DOCTYPE html>

<html>

<head>

    <title>Food Ordering System</title>

</head>

<body>


<h1>Food Ordering System</h1>


<!-- Registration Form -->

<h2>Register</h2>

<form action="food_ordering_system.php" method="post">

    Username: <input type="text" name="username"><br>

    Password: <input type="password" name="password"><br>

    <input type="submit" name="register" value="Register">

</form>


<!-- Login Form -->
```

```html
<h2>Login</h2>
<form action="food_ordering_system.php" method="post">
    Username: <input type="text" name="username"><br>
    Password: <input type="password" name="password"><br>
    <input type="submit" name="login" value="Login">
</form>


<!-- Display Menu -->
<h2>Menu</h2>
<?php
$menu_items = $conn->query("SELECT * FROM menu_items");
while ($item = $menu_items->fetch_assoc()) {
    echo "{$item['name']} - {$item['price']} - <a
href='food_ordering_system.php?add_to_cart={$item['id']}'>Add to Cart</a><br>";
}
?>


<!-- View Cart and Place Order -->
<h2>Your Cart</h2>
<?php
$total = 0;
if (isset($_SESSION['cart'])) {
    foreach ($_SESSION['cart'] as $item_id) {
        $item = $conn->query("SELECT * FROM menu_items WHERE id=$item_id")-
>fetch_assoc();
        echo "{$item['name']} - {$item['price']}<br>";
        $total += $item['price'];
    }
}
?>
```

```
Total: <?php echo $total; ?>

<form action="food_ordering_system.php" method="post">

    <input type="submit" name="place_order" value="Place Order">

</form>


<!-- View Orders -->

<h2>Your Orders</h2>

<a href="food_ordering_system.php?view_orders=1">View Orders</a>


</body>

</html>
```