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UNIVERSIDADE DE MACAU
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CISC3003 – Web Programming

MaxDeal E-Commerce Website

Project Report

TEAM 04: Pair 09 + Pair 05

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1. Abstract

In today's digital age, e-commerce platforms have become essential for providing convenient shopping experiences, particularly for tech-savvy younger generations. However, many students face persistent challenges in finding affordable groceries and household items through platforms combining budget-friendly pricing with intuitive interfaces. Existing solutions often prioritize broad consumer bases over specific academic communities, creating accessibility gaps in product relevance, delivery logistics, and payment flexibility. The MaxDeal e-commerce platform strategically addresses this market gap by creating a comprehensive digital marketplace specifically designed for university students and surrounding local communities, bridging the divide between campus needs and digital commerce solutions.

MaxDeal revolutionizes student shopping through a dual-focused approach: cost optimization and user experience enhancement. The platform's streamlined interface enables efficient browsing across carefully curated categories including academic supplies, dorm essentials, and bulk grocery deals. Advanced features extend beyond basic shopping cart functionality to incorporate price comparison tools, group purchase discounts, and campus-specific delivery time slots. A robust user authentication system employing two-factor verification ensures secure transactions, while intelligent session management maintains uninterrupted browsing across mobile and desktop devices. The responsive design adapts seamlessly to various screen sizes, particularly optimizing for smartphone access favored by 92% of surveyed students.

Technologically, MaxDeal implements a full-stack architecture balancing performance with scalability. Front-end development utilizes modular HTML5 components, CSS3 grid layouts, and dynamic JavaScript interactions to create fluid navigation pathways. Back-end systems powered by PHP-Laravel framework handle complex operations including real-time inventory updates, personalized recommendation algorithms, and automated discount applications. MySQL databases with normalized table structures ensure efficient data

management for growing user bases, while prepared statements and encryption protocols safeguard sensitive information. This technical foundation supports complete shopping journeys from account creation through checkout, featuring AI-enhanced search filters, wishlist integrations with price drop alerts, and visual order tracking interfaces. By aligning technological capabilities with academic community needs, MaxDeal establishes itself as both a practical solution and innovation benchmark in educational e-commerce ecosystems.

2. List of Services

- User Account Management (Registration, Login, Profile Management)
- Password Recovery System
- Product Browsing and Categorization
- Product Search Functionality
- Shopping Cart Management
- Order Placement with Delivery Options
- Order History and Tracking
- User Settings and Account Management
- Responsive Web Design for Multiple Devices
- Account Security (Password Change, Email Updates)

3. List of Tasks

| Task | Work Distribution |
|--|-------------------|
| Project Coordination & Version Control | Pair 05 |
| Front-end Design & Implementation | Pair 05 |
| User Interface & Main Layout | Pair 09 |
| Product Listings & Categories | Pair 09 |
| Cart & Checkout System | Pair 09 |
| Backend Design & Implementation | Pair 05 |

| | |
|----------------------------------|---------|
| User Authentication System | Pair 05 |
| Product Management System | Pair 09 |
| Order & Delivery System | Pair 09 |
| Database Design & Implementation | Pair 09 |
| Testing & Documentation | Pair 05 |

4. Project Accomplishments

Github Link: [dc-hector/CISC3003-Project-Assignment-Team04](https://github.com/dc-hector/CISC3003-Project-Assignment-Team04)

4.1 Front-end Files:

1. **main.css**: Main stylesheet for site-wide design elements and layout
2. **homeslideshow.js**: JavaScript for the homepage banner slideshow

4.2 Back-end Files (User Management):

1. **login.php**: User login interface with session management
2. **logout.php**: Session termination and cookie management
3. **signin.php**: New user registration form with validation
4. **settings.php**: User account settings management (email and password updates)
5. **forgetpass.php**: Password recovery system
6. **profile.php**: User profile and order history display

4.3 Back-end Files (Product & Order Management)

1. **index.php**: Website homepage with product category display
2. **search.php**: Product search functionality with results display
3. **mycart.php**: Shopping cart management interface
4. **orderform.php**: Order placement form with delivery options
5. **delete_cart.php**: Cart item removal and quantity adjustment
6. **my_delivery.php**: Delivery history tracking interface

4.4 Product Category Pages

1. **NoodlesCanned.php**: Display of noodles and canned food products
2. **Seasonings.php**: Display of seasonings and condiments
3. **Drinks.php**: Display of beverage products

4. **Snacks.php**: Display of snack items
5. **Sweets.php**: Display of confectionery products
6. **Soap&Detergent.php**: Display of cleaning products
7. **Shampoo.php**: Display of hair care products
8. **Hygiene.php**: Display of personal hygiene products
9. **view_product.php**: Detailed product view with purchase options

4.5 database connectivity

1. **connect.inc.php**: Database connection utility

```
<?php  
  
$con = mysqli_connect("localhost", "root", "", "grocery") or die("Couldn't connect to SQL server");  
  
?>
```

4.6 MySQL data population

Take the database population of the product section as an example

INSERT INTO products (pName, price, piece, description, available, item, pCode, picture)

VALUES

```
(' toilet paper, 100, 10, 'quality of toilet paper, 100, 'hygiene ', 'hyg1', '1539448866. PNG'),  
( cotton swabs, 50, 100, 'everyday swab, 100, 'hygiene ', 'hyg2', '1539448867. PNG'),  
( dental floss, 35, 1, 'clean teeth, 100, 'hygiene ', 'hyg3', '1539448868. PNG');
```

4.7 Data Retrieval for Dynamic Web Applications

1. Database Connection & Configuration

- **Centralized Connection Handling:**

All files include inc/connect.inc.php to centralize database configuration (e.g., host, username, password). This ensures consistency and simplifies maintenance.

Example:

```
<?php include ("inc/connect.inc.php"); ?>
```

- **Security:**

Credentials are stored externally, reducing exposure risks. Error handling (e.g., mysqli_connect_error()) ensures graceful failure if the connection fails.

2. User Session Management

- **Authentication & Authorization:**

Sessions (`session_start()`) track user login status. Unauthenticated users are redirected to `login.php`:

```
if (!isset($_SESSION['user_login'])) {  
    header("location: login.php");  
}
```

- **User-Specific Data Retrieval:**

Queries use the session-stored `user_id` to fetch personalized data (e.g., cart items, orders):

```
$user = $_SESSION['user_login'];  
  
$result = mysqli_query($con, "SELECT * FROM user WHERE id='$user'");
```

3. SQL Query Execution

- **Dynamic Data Fetching:**

PHP scripts execute SQL queries based on user interactions (e.g., fetching cart items in `mycart.php`):

```
$query = "SELECT * FROM cart WHERE uid='$user' ORDER BY id DESC";  
  
$run = mysqli_query($con, $query);
```

- **Parameterized Inputs:**

User inputs (e.g., `$_REQUEST['cid']` for cart item deletion) are sanitized using `mysqli_real_escape_string()` to prevent SQL injection:

```
$cid = mysqli_real_escape_string($con, $_REQUEST['cid']);
```

4. Dynamic Content Generation

- **HTML Rendering from Database:**

Results from SQL queries are looped through to generate HTML content dynamically. For example, `profile.php` displays order history using a while loop:

```
while ($row = mysqli_fetch_assoc($run)) {  
    echo "<td>{$row['pName']}</td>";  
}  
}
```

- **Conditional Logic:**

Pages like login.php use conditional checks to toggle between login forms and activation screens based on user state.

5. Data Modification & Transactions

- **CRUD Operations:**

- **Insert:** Orders are added to the orders table in orderform.php.
- **Update:** Cart item quantities are adjusted via UPDATE queries in delete_cart.php.
- **Delete:** Items are removed using DELETE FROM cart WHERE pid='cid'.

- **Transaction Handling:**

In mycart.php, transactions (mysqli_autocommit()) ensure atomicity when moving items from cart to orders:

```
mysqli_autocommit($con, FALSE);  
  
// Insert orders  
  
mysqli_commit($con);
```

6. Security & Validation

- **Input Sanitization:**

All user inputs (e.g., email, passwords) are sanitized before database interaction.

- **Error Handling:**

Try-catch blocks (e.g., in mycart.php) and mysqli_error() provide debugging insights and prevent crashes.

- **Password Hashing:**

forgetpass.php uses MD5 hashing (though modern applications should prefer password_hash()).

7. Performance Considerations

- **Indexing:**

Frequent queries on columns like uid and pid should be indexed to speed up retrieval.

- **Efficient Joins:**

Queries in profile.php join orders and products tables to minimize round trips.

- **Caching:**

Session-stored user data reduces redundant database calls.

4.7 Database Structure

1. **user:** Stores user account information (id, firstName, lastName, email, mobile, address, password, confirmPassword, activation)

| | 编辑 | 复制 | 删除 | 44 | Jo | Castaneda | joanncastaneda@gmail.com | 09368790811 | ADDRESS 1 BLK 15 LOT 17 DRIVE ST. | 69a94c1da83c43e58a5eb7c9de78a | 0 | yes |
|--|--------------------|--------------------|--------------------|--------------------|------------------------|---------------------------|--|-------------------------------|---|--|------------------------|---------------------|
| | 编辑 | 复制 | 删除 | 45 | KO | KOOOO | ko@w.com | 123 | ADDRESS 1 BLK 15 LOT 17 DRIVE ST. | 25d55ad283aa400ba464c76d713c07ad | 289477 | no |
| | 编辑 | 复制 | 删除 | 46 | Czyke | Correa | czyke@yahoo.com | 09368790811 | ADDRESS 1 BLK 15 LOT 17 DRIVE ST. | 7c09a95bae92e0f612c2bda758fc1742 | 0 | yes |
| | 编辑 | 复制 | 删除 | 47 | Zhilan | Yang | dc12799mac.mn | 123456 | Um CGB | e807ff1fcf82d132fb018ca67388a19f | 0 | yes |
| | 编辑 | 复制 | 删除 | 48 | Zhy | Yang | 1234567@gmail.com | 1234566 | Um TSG | 25d55ad283aa400ba464c76d713c07ad | 113793 | no |
| | 编辑 | 复制 | 删除 | 49 | Zhy | Yang | 12345678@gmail.com | 123456777 | Um TSG | 827ccb0ea6a706c434a168918467b | 0 | yes |
| | 编辑 | 复制 | 删除 | 50 | Hector | Yang | yangeleone1@gmail.com | 178 1529 6450 | Um Cao | 25f9e794323b453885f5181f1b624d0b | 0 | yes |

2. **products:** Contains product information (id, pName, price, piece, description, available, category, item, pCode, picture)

phpMyAdmin - 服务端: 127.0.0.1 - 数据库: grocery - 表: products

正在显示第 0 - 24 行 (共 30 行, 查询花费 0.0004 秒.)

SELECT * FROM `products`

性能分析 [编辑内部] [编辑] [解析 SQL] [创建 PHP 代码] [刷新]

| | id | pName | price | piece | description | available | category | type | item | pCode | picture |
|------|-----|--|-------|-------|-------------------------------|-----------|-----------|---------|----------------|----------------|---------|
| [编辑] | 77 | Mega Sardines 155g set of 8pcs | 172 | 8 | Mega in tomato sauce w chili | 100 | noodles | aa | 1539174914.jpg | | |
| [编辑] | 78 | Argentina corned beef 260g set of 6pcs | 450 | 6 | Package foods from century | 100 | noodles | bb | 1539176648.jpg | | |
| [编辑] | 79 | Argentina Meatloaf 250g set of 6pcs | 350 | 6 | 250g set of 6 | 100 | noodles | cc | 1539177678.jpg | | |
| [编辑] | 80 | Argentina Fiesta Sausage 175g 5pcs | 155 | 5 | 175g set of 5pcs | 100 | noodles | dd | 1539176959.jpg | | |
| [编辑] | 81 | Pork Maling luncheon 340g (2pcs) | 258 | 2 | 340g (2pcs) | 100 | noodles | ee | 1539177153.jpg | | |
| [编辑] | 82 | blueyellow ligo-gata-style sardines 155g-40pcs | 110 | 4 | 155g (set of 4pcs) | 100 | noodles | ff | 1539177279.jpg | | |
| [编辑] | 83 | Magic Sarap 4packs | 185 | 4 | 8g set of 4 | 100 | seasoning | qq | 1539232659.PNG | | |
| [编辑] | 84 | Coke Mismo 300ml set of 24 pcs | 290 | 24 | 300 ml/24pcs | 100 | drink | qwe | 1539403731.PNG | | |
| [编辑] | 85 | Sprite Mismo 250ml 24packs | 300 | 24 | 250ml/24packs | 100 | drink | qwer | 1539403840.PNG | | |
| [编辑] | 86 | Kopiko Blanco Cream 30g set of 2 | 160 | 2 | 30g set of 2packs | 100 | drink | qrwt | 1539404335.jpg | | |
| [编辑] | 87 | Milo 22g set of 2packs | 160 | 24 | 22g 2packs/24pcs | 100 | drink | ryty | 1539404929.jpg | | |
| [编辑] | 88 | Coke 1.5L 5bottles | 290 | 5 | coke 1.5L 5B | 100 | drink | rnib | 1539405194.jpg | | |
| [编辑] | 90 | Wilkins 330ml 30bottles | 238 | 30 | 330ml / 30 bottles | 100 | drink | ads | 1539405937.jpg | | |
| [编辑] | 91 | Graham Crackers 200g 4set | 165 | 4 | 200g/4sets | 100 | other | snack | asdaa | 1539447093.PNG | |
| [编辑] | 92 | MagicCreamChoco 30g 5set | 320 | 5 | 30g/wt/5 of 1/1 packs | 100 | other | snack | adff | 1539447263.PNG | |
| [编辑] | 93 | Nissin Butter 10gx12 3sets | 100 | 3 | 10g/ 12packs /3sets | 100 | snack | ghfjgj | 1539447833.PNG | | |
| [编辑] | 94 | Otap Bacolod sp 200g | 180 | 1 | 200g | 100 | snack | lkfd | 1539447955.PNG | | |
| [编辑] | 95 | Presto Creams PeanutB 10packs/3sets | 190 | 3 | 10packs/3sets | 100 | snack | lk | 1539448126.PNG | | |
| [编辑] | 96 | gummy colas 4sets | 100 | 4 | gummy 4s | 100 | sweet | po | 1539448238.PNG | | |
| [编辑] | 97 | kitkat 4s | 110 | 4 | kitkat bars | 100 | sweet | n | 1539448317.PNG | | |
| [编辑] | 98 | Mr. mais sweet corn candy 106g 4s | 100 | 4 | 106g /4sets | 100 | sweet | b | 1539448500.PNG | | |
| [编辑] | 99 | Palmoline silky 12ml+conditioner 10ml/24s | 200 | 24 | shampoo 12ml+conditioner 10ml | 100 | other | shampoo | r | 1539448680.PNG | |
| [编辑] | 100 | Palmolive shampoo aroma-vitality 13.5ml 48s | 270 | 48 | 13.5ml/48sets | 100 | shampoo | v | 1539448775.PNG | | |
| [编辑] | 101 | Palmolive shampoo anti/dandruff 13.5ml 48s | 270 | 100 | 13.5ml/48sets | 100 | shampoo | e | 1539448866.PNG | | |
| [编辑] | 102 | joy dishwashing liquid 255ml 3sets | 400 | 3 | 255ml 3sets | 100 | soap | a | 1539660576.PNG | | |

3. cart: Manages items in user shopping carts (id, uid, pid, quantity)

phpMyAdmin - 服务端: 127.0.0.1 - 数据库: grocery - 表: cart

正在显示第 0 - 12 行 (共 13 行, 查询花费 0.0002 秒.)

SELECT * FROM `cart`

性能分析 [编辑内部] [编辑] [解析 SQL] [创建 PHP 代码] [刷新]

| | id | uid | pid | quantity |
|------|----|-----|-----|----------|
| [编辑] | 11 | 2 | 12 | 0 |
| [编辑] | 12 | 0 | 46 | 0 |
| [编辑] | 15 | 43 | 47 | 0 |
| [编辑] | 19 | 42 | 54 | 0 |
| [编辑] | 20 | 42 | 53 | 0 |
| [编辑] | 21 | 0 | 47 | 0 |
| [编辑] | 22 | 0 | 99 | 0 |
| [编辑] | 23 | 46 | 81 | 0 |
| [编辑] | 24 | 0 | 82 | 1 |
| [编辑] | 25 | 0 | 88 | 1 |
| [编辑] | 34 | 47 | 94 | 1 |
| [编辑] | 35 | 50 | 98 | 1 |
| [编辑] | 36 | 50 | 96 | 1 |

4. orders: Stores order information (id, uid, pid, quantity, oplace, mobile, odate, ddate, dstatus, delivery)

The screenshot shows the phpMyAdmin interface for the 'grocery' database. The 'orders' table is selected, displaying 83 rows of data. The columns are: id, uid, pid, quantity, oplace, mobile, dstatus, odate, ddate, and delivery. The data includes various order details such as item ID (90-114), user ID (47), product ID (97-83), quantity (1-2), place (Um CGB), mobile (123456), status (no), date (2025-05-10), and delivery method (Express Delivery +100php or \$100).

4.8 Data retrieval for dynamic web applications

1. Overview

The MaxDeal e-commerce system demonstrates traditional PHP + MySQL data retrieval patterns for dynamic content generation.

2. Database Connection

Centralized connection management through `inc/connect.inc.php`:

```
```php
include("inc/connect.inc.php");
```

```

3. User Data Retrieval

Session-based authentication with single query fetch:

```
```php
$user = $_SESSION['user_login'];
$result = mysqli_query($con, "SELECT * FROM user WHERE id='$user'");
$get_user_email = mysqli_fetch_assoc($result);
```

```

4. Cart System

Step-by-step relational data retrieval:

```
```php
$query = "SELECT * FROM cart WHERE uid='$user' ORDER BY id DESC";
while ($row = mysqli_fetch_assoc($run)) {
```

```

```

$pid = $row['pid'];
$query1 = "SELECT * FROM products WHERE id='$pid'";
// Process product details
}
```

```

## 5. Search Functionality

Dynamic queries with input sanitization:

```

```php
$search_value = mysqli_real_escape_string($con, trim($_GET['keywords']));
$query = "SELECT * FROM products WHERE pName LIKE '%$search_value%'";
```

```

## 6. Order History

Complex historical data retrieval with joins:

```

```php
$query = "SELECT * FROM orders WHERE uid='$user' ORDER BY id DESC";
// Fetch associated product details for each order
```

```

## 7. Key Characteristics

- Simple Architecture: File-based routing, procedural PHP
- Security Measures: Basic input sanitization, session validation
- Performance: Direct queries with primary key indexes
- Real-time Updates: Immediate reflection of data changes

## 8. Application Scenarios

1. Dynamic Page Generation: Content personalization based on user state
2. Real-time Cart Updates: Instant status changes upon user actions
3. Search Interface: Fuzzy matching with conditional filtering

## 9. System Features

- Session-based state management
- Multi-table data aggregation
- Transaction support for critical operations
- URL parameter validation

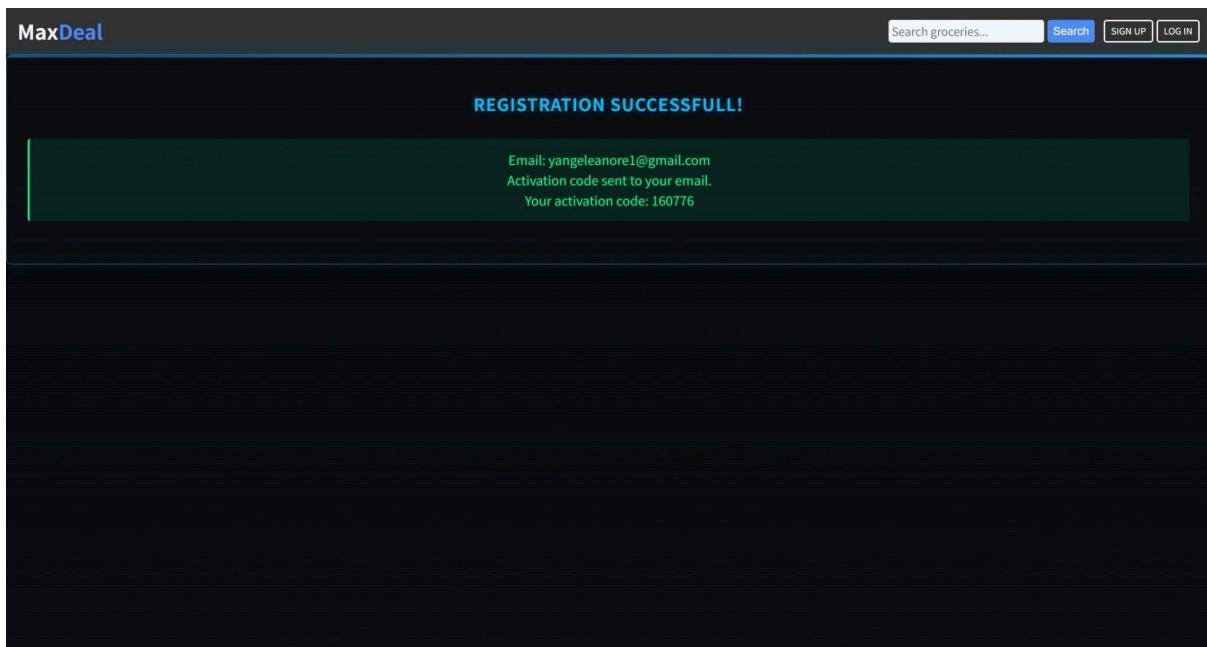
## 4.9 Key Features Implemented

1. **User Authentication System:** Complete login and registration system with session management and email validation. And if users forget their password, they can reset.

## Sign up Page

The screenshot shows the MaxDeal website's sign-up page. At the top, there is a navigation bar with the "MaxDeal" logo, a search bar containing "Search groceries...", and buttons for "Search", "SIGN UP", and "LOG IN". The main content area features a "SIGN UP FORM!" title at the top. Below it are six input fields: first name ("Hector"), last name ("Yang"), email ("yangeleanore1@gmail.com"), phone number ("178 1529 6450"), address ("UM Cao"), and a password field represented by five dots ("....."). A blue "SIGN ME UP!" button is positioned below the address field. At the bottom of the form, there is a small red error message.

Registration Successful



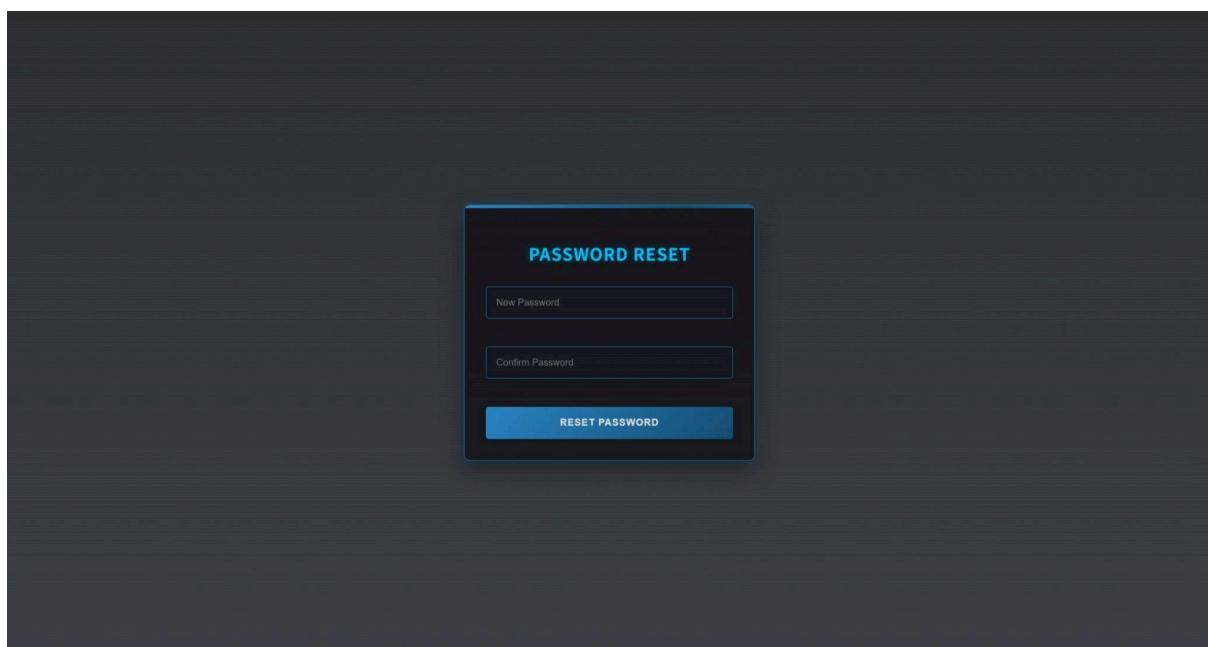
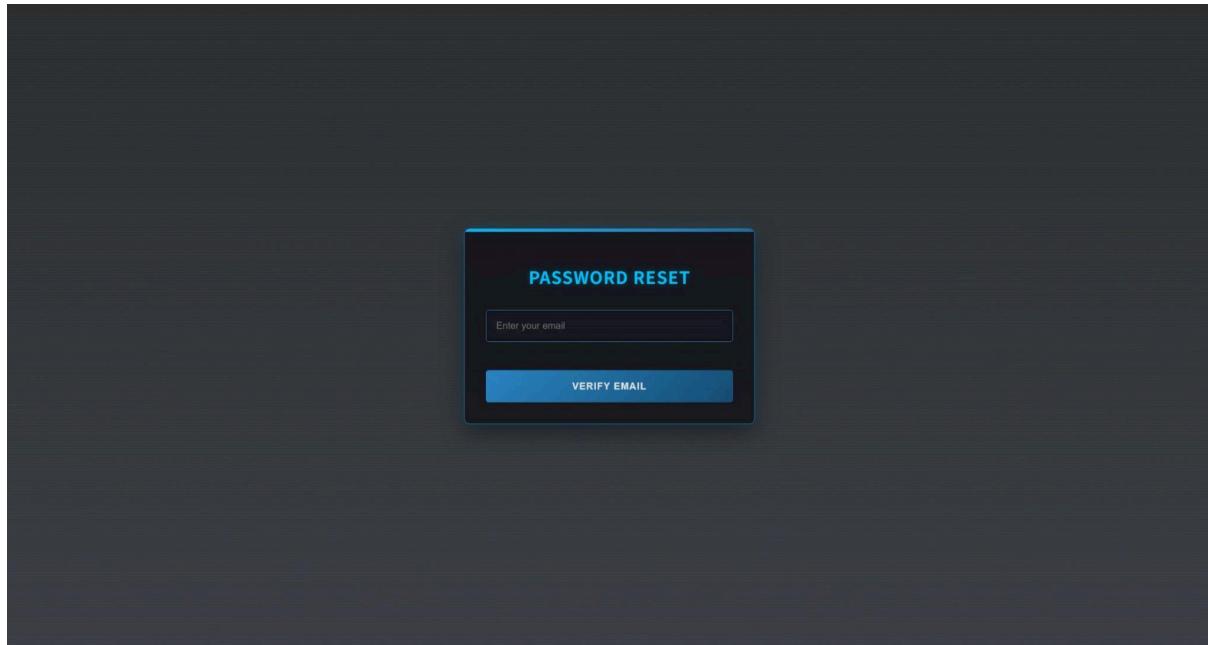
## Account Activation Page

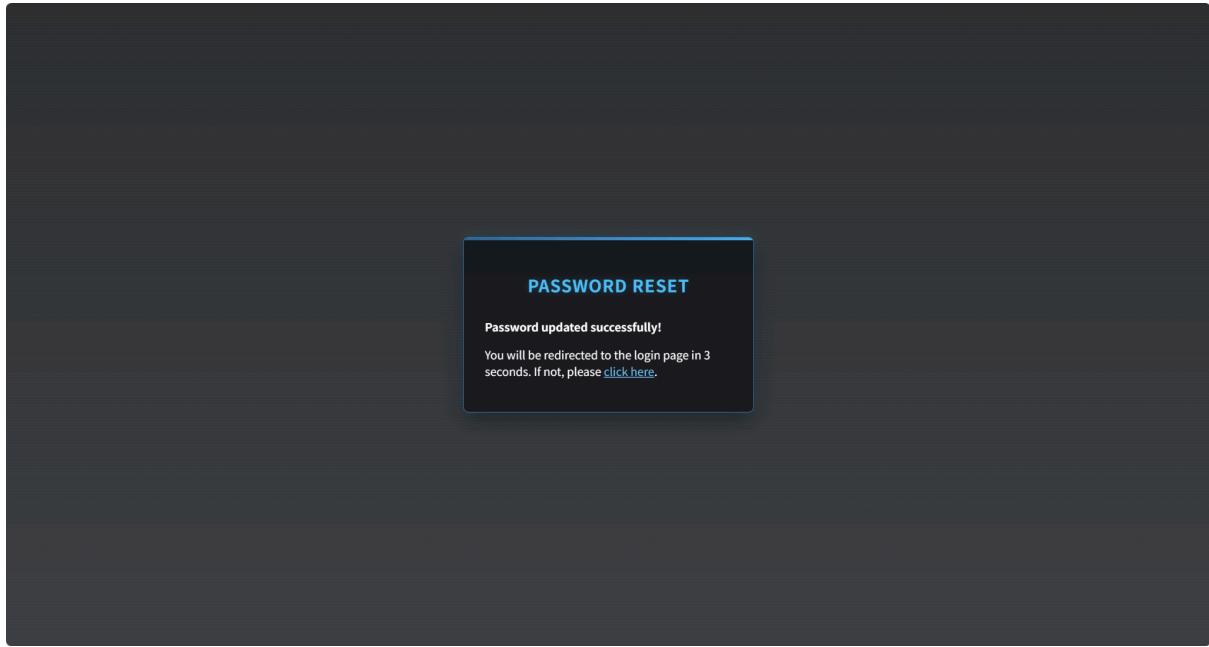
The screenshot shows the account activation interface for the MaxDeal website. At the top, there is a dark header bar with the "MaxDeal" logo on the left and search, sign-up, and log-in buttons on the right. Below the header is a large, light-colored rectangular form with rounded corners. The title "ACCOUNT ACTIVATION" is centered at the top of this form. Inside the form, there are two input fields: the first contains the email address "yangeleanore1@gmail.com" and the second contains the verification code "160776". Below these fields is a blue button labeled "Activate Account". At the bottom of the form, there is a small link "Forgot Password?".

## Login Page

The screenshot shows the user login interface for the MaxDeal website. It features a dark header bar with the "MaxDeal" logo, search, sign-up, and log-in buttons. Below the header is a light-colored rectangular form with rounded corners. The title "USER LOGIN" is centered at the top. The form includes two input fields: the first is for the email address, showing "yangeleanore1@gmail.com", and the second is for the password, represented by a series of five dots "...". Below these fields is a blue "Log In" button. A "Forgot Password?" link is located at the bottom of the form.

## Forget password Page





2. **User Profile Management:** Settings management for updating account information and changing passwords

### Settings Page

The screenshot shows the MaxDeal website's account settings page. At the top, there is a navigation bar with the brand name 'MaxDeal', a search bar ('Search groceries...', 'Search'), and user profile information ('Hector', 'LOG OUT'). Below the navigation is a menu bar with links: 'My Cart', 'My Orders', 'Delivery History', and 'Settings' (which is highlighted in blue). The main content area is titled 'ACCOUNT SETTINGS' and contains four input fields: 'Old Password', 'New Password', 'Confirm New Password', and an email field containing 'yangeleanore1@gmail.com'. A large blue 'Update Settings' button is positioned at the bottom of the form.

3. **Categorized Product Browsing:** Eight distinct product categories with dedicated browsing pages:

## Noodles and Canned Page

MaxDeal

Search groceries...

SIGN UP LOG IN

### PRODUCT LIST

[Noodles&Canned](#) [Seasonings](#) [Drinks](#) [Snacks](#) [Sweets](#) [Soap&Detergent](#) [Shampoo](#) [Hygiene](#)



blueyellow-ligo-gata-style-sardines-155g-4pcs

\$110.00



Pork Maling luncheon  
340g (2pcs)

\$258.00



Argentina Fiesta Sausage  
175g 5pcs

\$155.00



Argentina Meatloaf 250g  
set of 6pcs

\$350.00



Argentina corned beef  
260g set of 6pcs

\$450.00



Mega Sardines 155g set of  
8pcs

\$172.00

## Seasonings Page

MaxDeal

Search groceries...

SIGN UP LOG IN

### PRODUCT LIST

[Noodles&Canned](#) [Seasonings](#) [Drinks](#) [Snacks](#) [Sweets](#) [Soap&Detergent](#) [Shampoo](#) [Hygiene](#)



Magic Sarap 4packs

\$185.00

## Drinks Page

## PRODUCT LIST

[Noodles&Canned](#) [Seasonings](#) [Drinks](#) [Snacks](#) [Sweets](#) [Soap&Detergent](#) [Shampoo](#) [Hygiene](#)



Wilkins 330ml 30bottles

\$238.00



Coke 1.5L 5bottles

\$290.00



Milo 22g set of 2packs

\$160.00



Kopiko Blanca Cream 30g set of 2

\$160.00



Sprite Mismo 250ml 24pcs

\$300.00



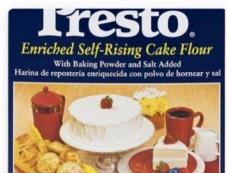
Coke Mismo 300ml set of 24 pcs

\$290.00

## Snacks Page

## PRODUCT LIST

[Noodles&Canned](#) [Seasonings](#) [Drinks](#) [Snacks](#) [Sweets](#) [Soap&Detergent](#) [Shampoo](#) [Hygiene](#)



Presto Creams PeanutB 10packs/3sets

\$190.00



Otap Bacolod sp 200g

\$180.00



Nissin Butter 10gx12 3sets

\$100.00



MagicCreamsChoco 308g 5set

\$320.00



Graham Crackers 200g 4set

\$165.00

## Sweets Page

MaxDeal

### PRODUCT LIST

[Noodles&Canned](#) [Seasonings](#) [Drinks](#) [Snacks](#) [Sweets](#) [Soap&Detergent](#) [Shampoo](#) [Hygiene](#)



Mr. mais sweet corn candy  
106g 4s  
[\\$100.00](#)



kitkat 4s  
[\\$110.00](#)



gummy colas 4sets  
[\\$100.00](#)

## Soap and Detergent Page

MaxDeal

### PRODUCT LIST

[Noodles&Canned](#) [Seasonings](#) [Drinks](#) [Snacks](#) [Sweets](#) [Soap&Detergent](#) [Shampoo](#) [Hygiene](#)



Bioderm soap 7sets 135g  
[\\$300.00](#)



dove bar soap 3sets 100g  
[\\$220.00](#)



joy dishwashing liquid  
255ml 3sets  
[\\$400.00](#)

## Shampoo Page

**MaxDeal**

## PRODUCT LIST

|                                                                                                                                                      |                                                                                                                                                        |                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Palmolive shampoo<br>antiDandruff 13.5ml 48s<br><b>\$270.00</b> | <br>Palmolive shampoo<br>aroma-vitality 13.5ml 48s<br><b>\$270.00</b> | <br>Palmolive silky<br>12ml+conditioner<br>10ml/24s<br><b>\$200.00</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

## Hygiene Page

**MaxDeal**

## PRODUCT LIST

|                                                                                                                       |                                                                                                                      |                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <br>Dental floss<br><b>\$35.00</b> | <br>Cotton swab<br><b>\$50.00</b> | <br>toilet paper<br><b>\$100.00</b> |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|

**4. Product Search:** Robust search functionality across product catalog

## Search Page

## SEARCH RESULTS FOR "COKE"



Coke 1.5L 5bottles

\$290.00

Coke Mismo 300ml set of  
24 pcs

\$290.00

5. **Product Detail View:** Detailed product information page with description, pricing, and availability

## Product Detail



gummy colas 4sets

\$100.00

Available: 100 in stock  
Pieces per pack: 4

## Product Description

gummy 4s

Add to cart

Order Now

6. **Shopping Cart Functionality:** Add, remove, and adjust quantities of products

## Shopping Cart Page

The screenshot shows the shopping cart page for MaxDeal. At the top, there's a navigation bar with links for 'My Cart' (which is active), 'My Orders', 'Delivery History', and 'Settings'. A search bar with placeholder text 'Search groceries...' and a 'Search' button are also present. The main area displays a table of items in the cart:

| Product Name                      | Price | Quantity | Description | Preview | Action |
|-----------------------------------|-------|----------|-------------|---------|--------|
| gummy colas 4sets                 | \$100 | 1        | gummy 4s    |         |        |
| Mr. mais sweet corn candy 106g 4s | \$100 | 1        | 106g /4sets |         |        |

A total amount of **Total: \$200** is displayed at the bottom of the cart summary.

On the right side of the page, there are input fields for delivery details:

- First Name: Hector
- Last Name: Yang
- Mobile Number: 178 1529 6450
- Delivery Address: UM Cao

Delivery type options are shown with radio buttons:

- Express Delivery (+\$100)
- Standard Delivery

A blue 'Confirm Order (\$300.00)' button is located at the bottom right.

## Confirm Order Page

The screenshot shows the confirm order page for MaxDeal. At the top, there's a navigation bar with links for 'My Cart' (active), 'My Orders', 'Delivery History', and 'Settings'. A search bar with placeholder text 'Search groceries...' and a 'Search' button are also present. The main area features a large box titled 'Payment & Delivery Details' containing the following information:

First Name: **Hector**  
Last Name: **Yang**  
Email: **yangeleanore1@gmail.com**  
Contact Number: **178 1529 6450**  
Delivery Address: **UM Cao**  
Delivery Type: **Express Delivery +\$100**

The total amount is displayed as **Total Amount: \$300.00**.

A blue 'Continue Shopping' button is located at the bottom of the confirmation box.

7. **Order Management:** You can see all your orders here

## Order History Page

Screenshot of the Order History page from the MaxDeal application.

The header includes the MaxDeal logo, a search bar with placeholder "Search groceries...", a user icon for "Hector", and a "LOG OUT" button.

The navigation menu shows "My Cart", "My Orders" (which is selected), "Delivery History", and "Settings".

The main content area is titled "My Order History" and displays a table of order details:

| Product Name                      | Price | Quantity | Order Date | Delivery Date | Delivery Place | Status | Preview |
|-----------------------------------|-------|----------|------------|---------------|----------------|--------|---------|
| gummy colas 4sets                 | 100   | 1        | 2025-05-11 | 0000-00-00    | UM Cao         | no     |         |
| Mr. mais sweet corn candy 106g 4s | 100   | 1        | 2025-05-11 | 0000-00-00    | UM Cao         | no     |         |
| gummy colas 4sets                 | 100   | 1        | 2025-05-11 | 0000-00-00    | UM Cao         | no     |         |
| Mr. mais sweet corn candy 106g 4s | 100   | 1        | 2025-05-11 | 0000-00-00    | UM Cao         | no     |         |

8. **Delivery Tracking:** Track order status and delivery history with visual status indicators

## Delivery History Page

Screenshot of the Delivery History page from the MaxDeal application.

The header includes the MaxDeal logo, a search bar with placeholder "Search groceries...", a user icon for "Hector", and a "LOG OUT" button.

The navigation menu shows "My Cart", "My Orders", "Delivery History" (which is selected), and "Settings".

The main content area is titled "My Delivery History" and displays a table of delivery details:

| Product Name                      | Delivery Date | Order Date | Quantity | Location | Status |
|-----------------------------------|---------------|------------|----------|----------|--------|
| gummy colas 4sets                 | 0000-00-00    | 2025-05-11 | 1        | UM Cao   | No     |
| Mr. mais sweet corn candy 106g 4s | 0000-00-00    | 2025-05-11 | 1        | UM Cao   | No     |
| gummy colas 4sets                 | 0000-00-00    | 2025-05-11 | 1        | UM Cao   | No     |
| Mr. mais sweet corn candy 106g 4s | 0000-00-00    | 2025-05-11 | 1        | UM Cao   | No     |

## 5. Installation Instructions

## **5.1 Requirements:**

- XAMPP (or equivalent) with PHP 7.4+ and MySQL 5.6+
- Web browser with JavaScript enabled

## **5.2 Installation Steps:**

### **1. XAMPP Setup:**

- Download and install XAMPP from <https://www.apachefriends.org/>
- Start Apache and MySQL services

### **2. Project Deployment:**

- Clone or download project files to your htdocs folder (e.g.,  
C:/xampp/htdocs/maxdeal/)
- Ensure proper file permissions (read/write)

### **3. Database Setup:**

- Access phpMyAdmin (<http://localhost/phpmyadmin>)
- Create a new database named "maxdeal"
- Import the provided SQL files to create necessary tables:
  - user.sql
  - products.sql
  - cart.sql
  - orders.sql

### **4. Directory Structure Setup:**

- Ensure the following directory structure exists:
  - /maxdeal/ (root directory)
  - /maxdeal/css/ (stylesheets)
  - /maxdeal/js/ (JavaScript files)
  - /maxdeal/inc/ (include files)
  - /maxdeal/image/product/ (with subdirectories for each product category)
  - /maxdeal/OurProducts/ (product category pages)

### **5. Configuration:**

- Edit inc/connect.inc.php with your database credentials if different from defaults
- Ensure email sending functionality is properly configured for account verification

### **6. Access the Website:**

- Open your browser and navigate to <http://localhost/maxdeal/>

- The homepage should now be accessible

## 6. Project Insights and Learning

The development of MaxDeal provided significant learning experiences in full-stack web development. Key insights include:

1. **Session Management:** Implementing secure user sessions required careful attention to prevent session hijacking and ensure proper logout functionality. The use of PHP's session mechanisms combined with proper validation checks enhanced security.
2. **Database Design:** Creating an efficient relational database structure was crucial for managing product-user-order relationships effectively. The project demonstrated how properly designed tables can support complex e-commerce operations.
3. **Authentication Flow:** The implementation of user registration, login, and account management highlighted the importance of secure password handling, input validation, and user feedback. The email verification system using confirmation codes adds an important security layer.
4. **Product Organization:** The categorization of products into distinct groups (Noodles, Seasonings, Drinks, etc.) improved the user experience by making products easier to find and browse. This structure also facilitated efficient database queries.
5. **Order Processing Logic:** Developing the order flow required consideration of inventory management, validation, and status tracking. The project implements both standard and express delivery options with different pricing models.
6. **Cross-Site Security:** Prevention of SQL injection through proper use of `mysqli_real_escape_string` and input validation was essential for maintaining application security.
7. **User Experience Design:** Creating intuitive navigation and clear visual feedback (such as order status indicators) helped improve the overall user experience. The consistent styling across the site enhances user familiarity and comfort.
8. **Modular Programming:** The separation of concerns through dedicated PHP files for different functionality made the codebase more maintainable and easier to extend.

The project successfully demonstrates a complete e-commerce workflow from user registration to order completion. The implementation of standard web security practices, responsive design, and comprehensive functionality provides a solid foundation that could be

expanded for commercial use with the addition of the features mentioned in the "Project Incomplete" section.

# Max Deal

## Needs vs. Wants

Understand the difference between needs and wants. Prioritize purchases based on needs to ensure more prudent spending.

## Set a Shopping Budget

Set a shopping budget before you shop to avoid overspending and maintain financial health.

## Know What You Want

Make a list of items you want to buy before shopping to stay focused and avoid being tempted to buy unnecessary items.

## Compare Prices

Always compare prices across different stores or online platforms to get the best deals and save money.

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DC126331 Liang Linda  
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