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Faculty of Science and Technology
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澳門大學
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.

4.8 Database Structure

The screenshot shows the phpMyAdmin interface for the 'grocery' database. The 'user' table is currently selected. The table structure is shown with columns: id, firstName, lastName, email, mobile, address, password, confirmPassword, and activation. There are 4 rows of data. A modal window titled '新建数据表' (New Data Table) is open, prompting for a table name ('数据表名') and character set ('字段数').

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

The screenshot shows the 'user' table in the 'grocery' database. The table has 10 rows of data. The columns are: id, firstName, lastName, email, mobile, address, password, confirmPassword, and activation. The data includes various user details like Jo Castaneda, Czyke Correa, Zhilan Yang, Zhiy Yang, and Hector Yang, along with their respective contact information and activation status (yes/no).

	id	firstName	lastName	email	mobile	address	password	confirmCode	activation
[编辑]	44	Jo	Castaneda	joanncastaneda@gmail.com	09368790811	ADDRESS 1 BLK 15 LOT 17 DRIVE ST.	69a94c1da83c43e58a5eb7c9de78a	0	yes
[编辑]	45	KO	KOOOO	ko@w.com	123	ADDRESS 1 BLK 15 LOT 17 DRIVE ST.	25d55ad283aa400ba464c76d713c07ad	289477	no
[编辑]	46	Czyke	Correa	czyke@yahoo.com	09368790811	ADDRESS 1 BLK 15 LOT 17 DRIVE ST.	7c09a95bae92e0f612c2bda758fc1742	0	yes
[编辑]	47	Zhilan	Yang	dc12799mac.mn	123456	Um CGB	e807ff1fcf82d132fb018ca67388a19f	0	yes
[编辑]	48	Zhy	Yang	1234567@gmail.com	1234566	Um TSG	25d55ad283aa400ba464c76d713c07ad	113793	no
[编辑]	49	Zhy	Yang	12345678@gmail.com	123456777	Um TSG	827ccb0ea6a706c434a1689184e7b	0	yes
[编辑]	50	Hector	Yang	yangelanore1@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)

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] [复制] [删除]	77	Mega Sardines 155g set of 8pcs	172	8	Mega in tomato sauce w chili	100	noodles	aa		1539177419.png	
[编辑] [复制] [删除]	78	Argentina corned beef 250g set of 6pcs	450	6	Package foods from century	100	noodles	bb		1539176648.jpg	
[编辑] [复制] [删除]	79	Argentina Meatoaf 250g set of 6pcs	350	6	250g set of 6	100	noodles	cc		1539176787.jpg	
[编辑] [复制] [删除]	80	Argentina Fiesta Sausage 175g Spcs	155	5	175g set of 5pcs	100	noodles	dd		1539176959.jpg	
[编辑] [复制] [删除]	81	Pork Maling Luncheon 340g (2pcs)	258	2	340g (2pcs)	100	noodles	ee		1539177153.jpg	
[编辑] [复制] [删除]	82	blueyellow-ligo-gata-style-sardines-155g-4pcs	110	4	155g (set of 4pcs)	100	noodles	ff		1539177279.jpg	
[编辑] [复制] [删除]	83	Magic Sarap 4packs	185	4	8g set of 4	100	seasoning	qq		1539223659.PNG	
[编辑] [复制] [删除]	84	Coke Mismo 300ml set of 24 pcs	290	24	300 ml 24packs	100	drink	qwe		1539403731.PNG	
[编辑] [复制] [删除]	85	Sprite Mismo 250ml 24packs	300	24	250ml 24packs	100	drink	qwer		1539403840.PNG	
[编辑] [复制] [删除]	86	Kopiko Blanca Cream 30g set of 2	160	2	30g set of 2packs	100	drink	qwert		1539404335.jpg	
[编辑] [复制] [删除]	87	Milo 22g set of 2packs	160	24	22g 2packs/24packs	100	drink	ryrty		1539404929.jpg	
[编辑] [复制] [删除]	88	Coke 1.5L 5bottles	290	5	coke 1.5L 5B	100	drink	mnib		1539405194.jpg	
[编辑] [复制] [删除]	90	Wilkins 330ml 30bottles	238	30	330ml / 30 bottles	100	drink	ads		1539405937.jpg	
[编辑] [复制] [删除]	91	Graham Crackers 200g /set	165	4	200g/4sets	100	other	snack	asdaa	1539407093.PNG	
[编辑] [复制] [删除]	92	MagicCreamsChoco 308g 5set	320	5	308g/set of 5/11 packs	100	other	snack	adff	1539447263.PNG	
[编辑] [复制] [删除]	93	Nissin Butter 10pcx12 3sets	100	3	10pcx12 / 12packs /3sets	100	snack	ghfjij		1539447833.PNG	
[编辑] [复制] [删除]	94	Otap Bacolod sp 200g	180	1	200g	100	snack	lkfjd		1539447955.PNG	
[编辑] [复制] [删除]	95	Presto Creams PeanutB 10packs/3sets	190	3	10packs/3sets	100	snack	lk		1539448126.PNG	
[编辑] [复制] [删除]	96	gummy colas 4sets	100	4	gummy 4sets	100	sweet	po		1539448238.PNG	
[编辑] [复制] [删除]	97	kitkat 4s	110	4	kitkat bars	100	sweet	n		1539448317.PNG	
[编辑] [复制] [删除]	98	Mc mias sweet corn candy 106g 4s	100	4	106g /4sets	100	sweet	b		1539448500.PNG	
[编辑] [复制] [删除]	99	Palmolive silky 12ml-conditioner10ml/24s	200	24	shampoo 12ml+conditioner10ml	100	other	shampoo	r	1539448680.PNG	
[编辑] [复制] [删除]	100	Palmolive shampoo aroma-vitality 13.5ml 48s	270	48	13.5ml/48sets	100	shampoo	v		1539448775.PNG	
[编辑] [复制] [删除]	101	Palmolive shampoo anti/dandruff 13.5ml 48s	270	100	13.5ml/48sets	100	shampoo	e		1539448866.PNG	
[编辑] [复制] [删除]	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)

The screenshot shows the phpMyAdmin interface with the following details:

- Database:** grocery
- Table:** cart
- Message Bar:** 正在显示第 0 - 12 行 (共 13 行, 查询花费 0.0002 秒.)
- Toolbar:** 浏览, 结构, SQL, 搜索, 插入, 导出, 导入, 权限, 操作, 追踪, 触发器
- Search Bar:** 显示全部, 行数: 25, 过滤行: 在表中搜索, 按索引排序: 无
- Table Data:** The 'cart' table contains 13 rows of data. The columns are id, uid, pid, quantity.

	id	uid	pid	quantity
[编辑]	11	2	12	0
[编辑]	12	0	46	0
[编辑]	13	43	47	0
[编辑]	14	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

- Buttons:** 全选, 选中行, 编辑, 复制, 删除, 导出
- Search Bar (Bottom):** 显示全部, 行数: 25, 过滤行: 在表中搜索, 按索引排序: 无
- Bottom Buttons:** 打印, 复制到剪贴板, 导出, 显示图表, 新建视图
- Bottom Labels:** 将此 SQL 查询加为书签, 标签: _____, 让所有用户均可访问此书签
- Bottom Control Bar:** 控制台

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

正在显示第 0 - 24 行 (共 83 行, 查询花费 0.0005 秒.)

```
SELECT * FROM `orders`
```

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

	id	uid	pid	quantity	oplace	mobile	dstatus	odate	ddate	delivery
[编辑]	90	47	97	1	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100php	
[编辑]	91	47	97	1	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100php	
[编辑]	92	47	93	1	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100php	
[编辑]	93	47	99	1	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	94	47	87	1	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	95	47	96	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	96	47	83	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	97	47	99	1	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	98	47	87	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	99	47	96	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	100	47	83	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	101	47	99	1	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	102	47	87	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	103	47	96	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	104	47	83	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	105	47	99	1	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	106	47	87	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	107	47	96	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	108	47	83	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	109	47	99	1	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	110	47	87	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	111	47	96	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	112	47	83	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	113	47	99	1	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	
[编辑]	114	47	87	2	Um CGB	123456	no	2025-05-10 0000-00-00	Express Delivery +\$100	

4.9 Key Features Implemented

- 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

MaxDeal

Search groceries... Search SIGN UP LOG IN

SIGN UP FORM!

Hector

Yang

yangeleanore1@gmail.com

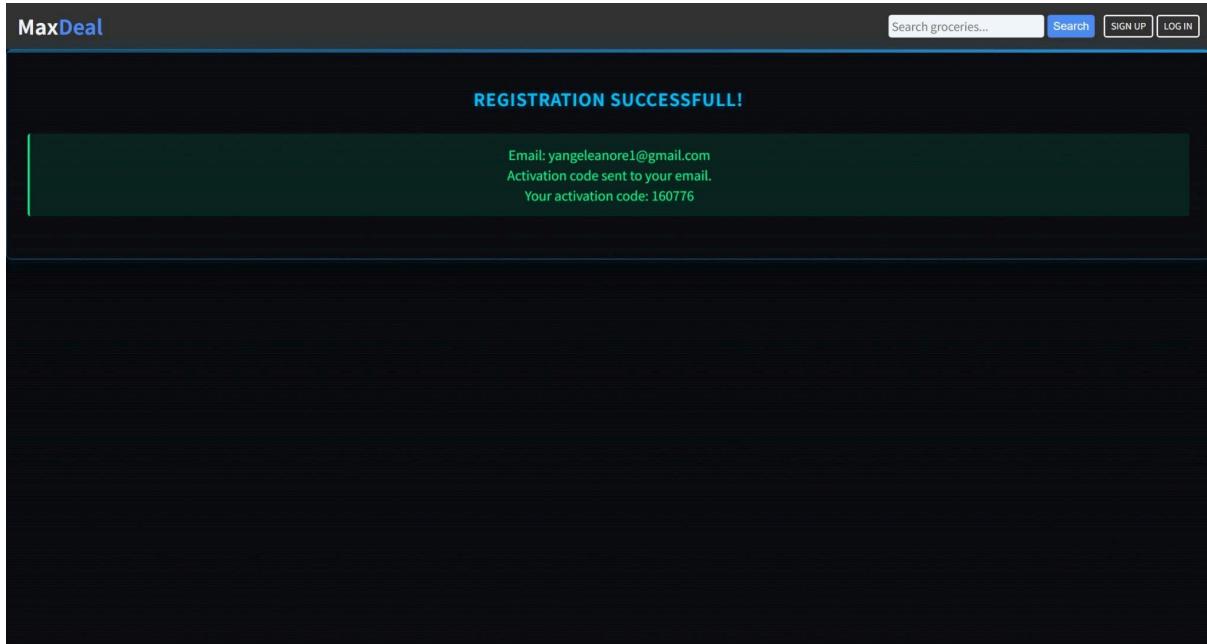
178 1529 6450

JM Cao

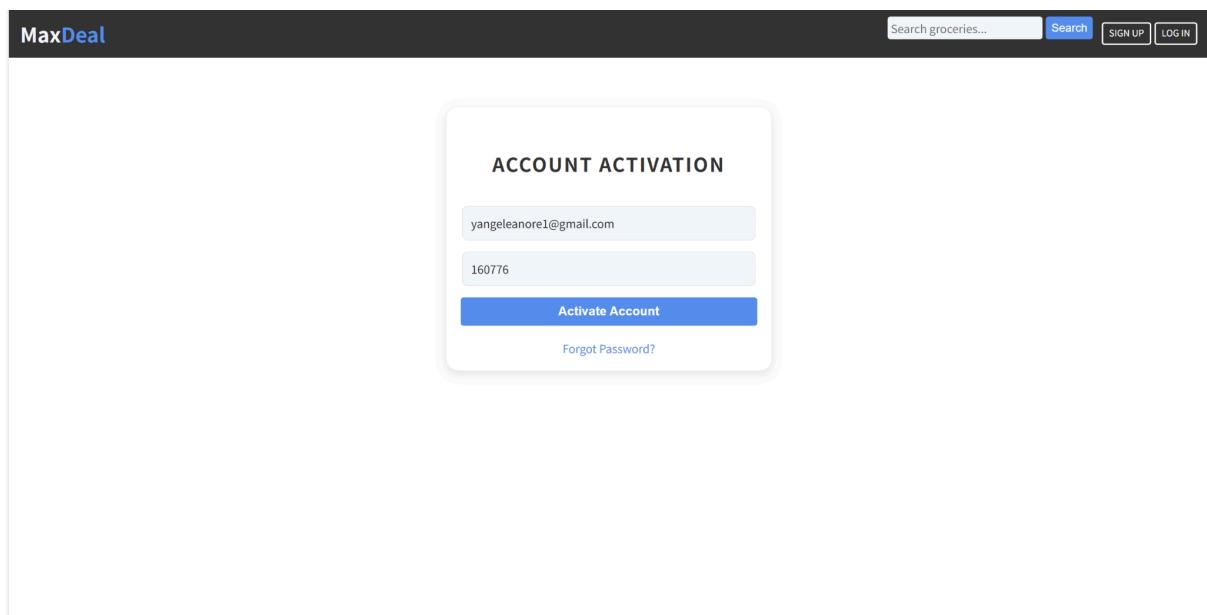
.....

SIGN ME UP!

Registration Successful



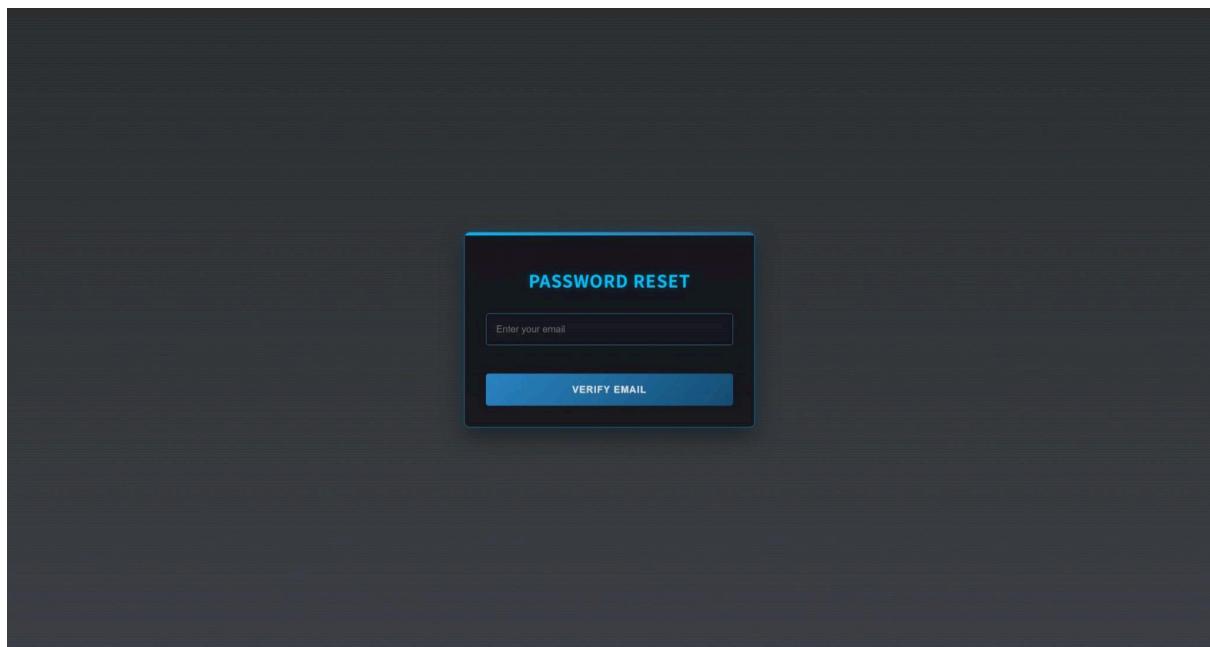
Account Activation Page

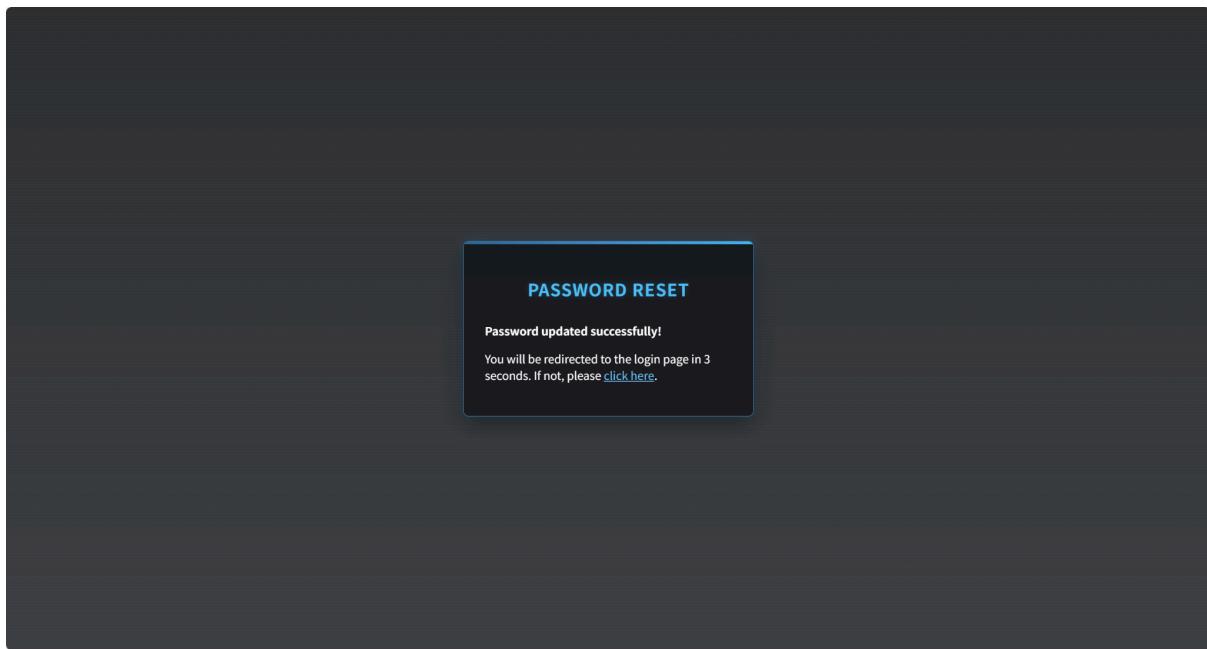
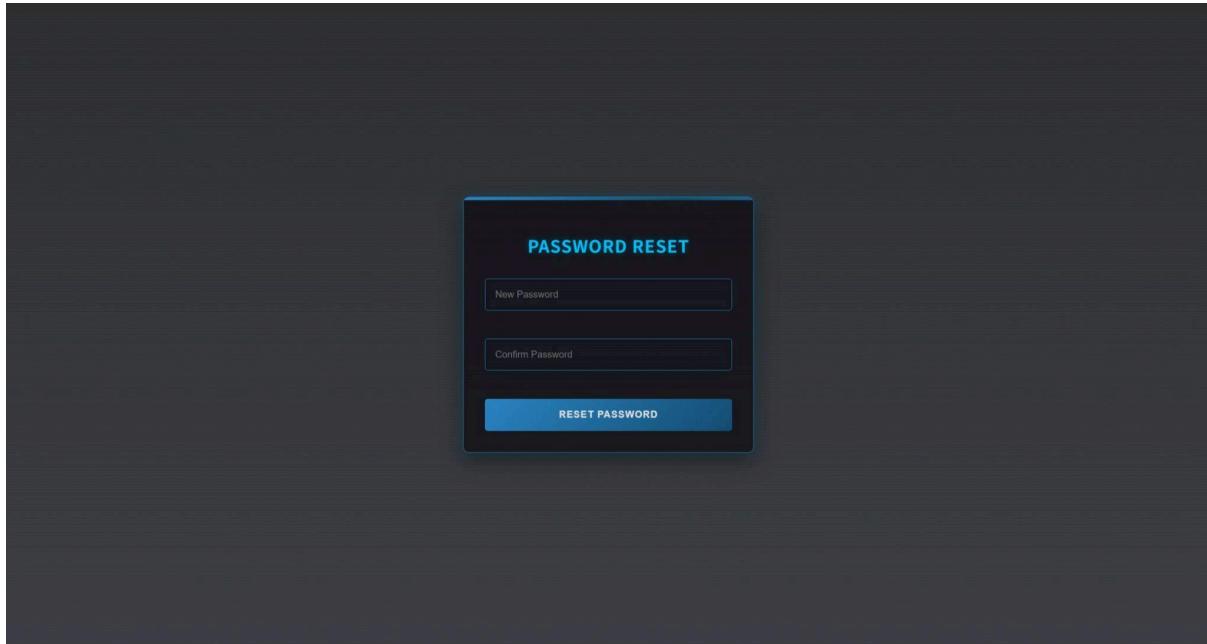


Login Page



Forget password Page





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

Settings Page

MaxDeal

My Cart My Orders Delivery History [Settings](#)

Search groceries... [Search](#) [Hector](#) [LOG OUT](#)

ACCOUNT SETTINGS

Old Password

New Password

Confirm New Password

yangeleanore1@gmail.com

[Update Settings](#)

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

Noodles and Canned Page

MaxDeal

Search groceries... [Search](#) [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 meat 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

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



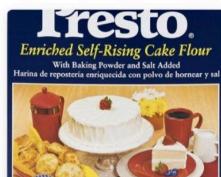
Coke Mismo 300ml set of 24 pcs

\$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

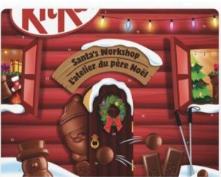
PRODUCT LIST

[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

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

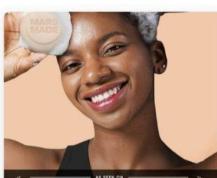
Shampoo Page

PRODUCT LIST

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

Palmolive shampoo
antiDandruff 13.5ml 48s

\$270.00

Palmolive shampoo
aroma-vitality 13.5ml 48s

\$270.00

Palmolive silky
12ml+conditioner
10ml/24s

\$200.00

Hygiene Page

MaxDeal

PRODUCT LIST

 Dental floss \$35.00	 Cotton swab \$50.00	 toilet paper \$100.00
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4. Product Search: Robust search functionality across product catalog

Search Page

MaxDeal

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

MaxDeal

Search groceries...

SIGN UP | LOG IN



gummy colas 4sets

\$100.00

Available: 100 in stock
Pieces per pack: 4

Product Description

gummy 4s

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

Shopping Cart Page

MaxDeal

Search groceries...

My Cart My Orders Delivery History Settings

Product Name	Price	Quantity	Description	Preview	Action
gummy colas 4sets	\$100	<input type="button" value="-"/> 1 <input type="button" value="+"/>	gummy 4s		<input type="button" value="Remove"/>
Mr. mais sweet corn candy 106g 4s	\$100	<input type="button" value="-"/> 1 <input type="button" value="+"/>	106g /4sets		<input type="button" value="Remove"/>

Total: \$200

First Name:

Last Name:

Mobile Number:

Delivery Address:

Express Delivery (+\$100)

Standard Delivery

Confirm Order Page

The screenshot shows the MaxDeal website's payment and delivery details page. At the top, there is a navigation bar with links for 'My Cart', 'My Orders', 'Delivery History', and 'Settings'. A search bar with placeholder text 'Search groceries...' and a 'Search' button are also present. The main content area is titled 'Payment & Delivery Details' and contains the following information:

First Name: Hector
Last Name: Yang
Email: yangleanore1@gmail.com
Contact Number: 178 1529 6450
Delivery Address: UM Cao
Delivery Type: Express Delivery +\$100

Total Amount: \$300.00

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

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

Order History Page

The screenshot shows the MaxDeal website's order history page. At the top, there is a navigation bar with links for 'My Cart', 'My Orders', 'Delivery History', and 'Settings'. A search bar with placeholder text 'Search groceries...', a user profile icon for 'Hector', and a 'LOG OUT' button are also present. The main content area is titled 'My Order History' and displays a table of previous purchases:

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

The screenshot shows the MaxDeal website's delivery history section. At the top, there is a navigation bar with links for 'My Cart', 'My Orders', 'Delivery History' (which is highlighted in blue), and 'Settings'. On the right side of the header, there is a search bar with placeholder text 'Search groceries...', a 'Search' button, a user icon labeled 'Hector', and a 'LOG OUT' button. Below the header, the main content area has a title 'My Delivery History' and a table displaying four rows of delivery information. The table columns are: Product Name, Delivery Date, Order Date, Quantity, Location, and Status. The data in the table is as follows:

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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