

REPORT REMINDER

SUJET :
PHP Reminder

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INTRODUCTION:

This report presents the "Online Food Ordering Project," assigned by Professor Siham Benhadou, aimed at reinforcing students' knowledge of PHP commands and MySQL database management. The project involves building an online platform where users can register and log in, browse through an interactive menu, select items, add them to a cart, and review their order before checkout.

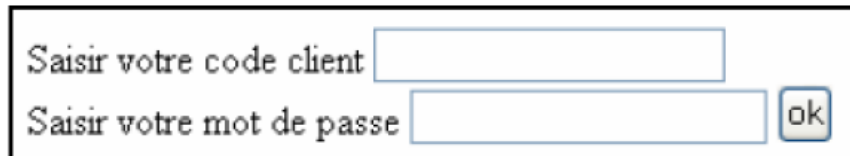
The system is designed to mimic the operations of a typical food delivery service, focusing on key functionalities such as user authentication, dynamic menu generation, and real-time order visualization. By using PHP for server-side logic and MySQL for database management, this project demonstrates the integration of web technologies to deliver a seamless user experience. Throughout the development process, various techniques for handling data flow, session management, and database interactions were applied, which are discussed in this report.

EXERCICE STATEMENT :

-Créer un site de commandes en ligne de plats cuisinés utilisant la base de données « base_contrôle_plats_cuisinés » et en se basant sur le modèle de pages suivant :

FIRST PAGE :

Client identification :

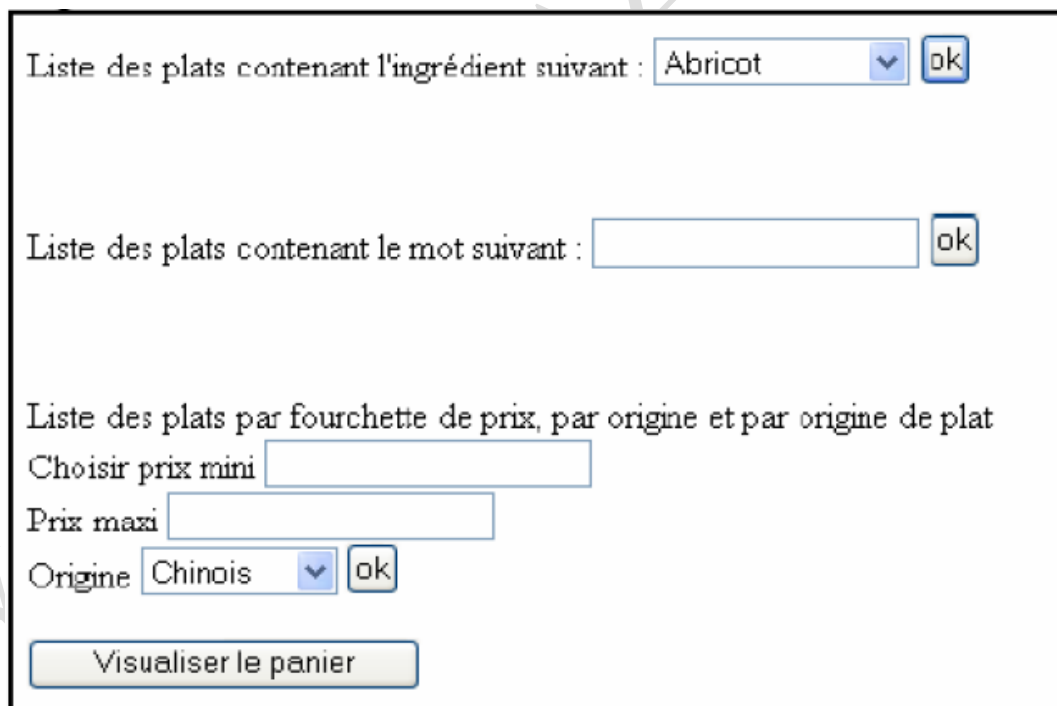


Saisir votre code client

Saisir votre mot de passe

SECOND PAGE :

Menu Page:



Liste des plats contenant l'ingrédient suivant :

Liste des plats contenant le mot suivant :

Liste des plats par fourchette de prix, par origine et par origine de plat

Choisir prix mini

Prix maxi

Origine

THIRD PAGE :



Plate Page:

Liste des plats correspondant à votre requête

Clafoutis aux abricots Végétarien quantité : [ajouter au panier](#)
 Prix : 4.0 € Dessert 120g
 Origine : Européen
 Ingrédients : Abricot ; Farine ; Œuf ; Sucre

Tatin ananas Normal quantité : [ajouter au panier](#)
 Prix : 5.0 € Dessert 100g
 Origine : Européen
 Ingrédients : Ananas ; Beurre ; Pâte feuilletée ; Sucre

Tartelette Ananas Végétarien quantité : [ajouter au panier](#)
 Prix : 4.0 € Dessert 80g
 Origine : Européen
 Ingrédients : Ananas ; Fraises ; Sucre

[Visualiser le panier](#)

[menu](#)

FOURTH PAGE :

Cart Page:

Qté	PLAT	Prix	Total	
<input type="text" value="2"/>	Clafoutis aux abricots	4.0	8.00 €	supprimer
<input type="text" value="1"/>	Tartelette Ananas	4.0	4.00 €	supprimer

Total des achats = 12.00 €

[Mise à jour des modifications](#)

[valide la cde](#)

[menu](#)

Project Specification: Online Food Ordering System

1. Project Overview

Develop an online food ordering system that allows customers to browse a menu of prepared dishes, place orders, and manage their shopping cart.

2. Objectives

- Create a user-friendly platform for customers to order prepared meals online
- Implement a robust database system to manage products, orders, and customer information
- Ensure secure user authentication and data protection

3. Key Features

3.1 User Management

- User registration and login
- User profile management (client_code, password)

3.2 Product Catalog

- Display a list of available dishes
- Include details such as name, price, description, and category for each dish
- Implement category-based filtering

3.3 Shopping Cart

- Add/remove items to/from the cart
- Adjust quantities of items in the cart
- Display cart total

3.4 Order Processing

- Place orders from the cart
- Generate order confirmation with unique order ID
- Display order history for users

3.5 Admin Panel

- Manage product catalog (add, edit, remove dishes)
- View and manage orders (update status)
- User management

4. Technical Requirements

4.1 Frontend / Backend

- PHP can be used to generate dynamic HTML content on the server-side, allowing for the creation of responsive web pages that can adapt to user input and database content.
- In backend development, PHP excels at handling server-side logic, processing form submissions, managing database interactions, and implementing authentication and authorization systems, making it a versatile language for building robust web applications.

4.3 Database

- Use relational database (e.g., MySQL) to store user, product, and order information
- Implement database schema as per the provided MCD

5. Security Requirements

- Secure user authentication

- Encryption of sensitive data (passwords, payment information)
- Protection against common web vulnerabilities

6. Deliverables

- Fully functional web application
- Admin panel for system management
- User documentation
- Technical documentation including database schema and API documentation

7. Timeline

- 6 days

8. Future Enhancements

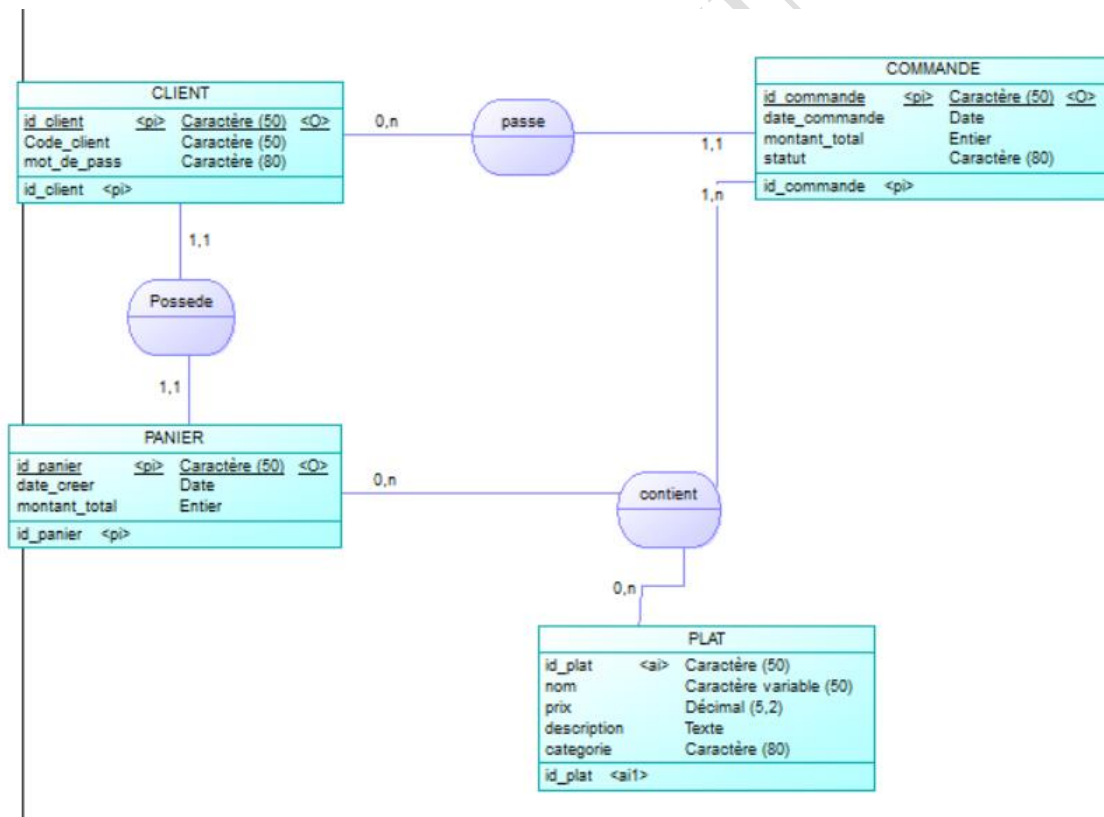
- Integration with payment gateways
- Implementing a review and rating system for dishes
- Adding a delivery tracking feature

Data Modeling and Database Design for an Online Food Ordering System:

-In this section, we will explore the data architecture of our online food ordering system through three progressive levels of data modeling: the Conceptual Data Model (MCD), the Logical Data Model (MLD), and the Physical Data Model (MPD). These models represent the evolution of our database design from abstract concepts to concrete implementation.

1. Conceptual Data Model (MCD):

The MCD provides a high-level view of the system's data structure, focusing on the main entities and their relationships. This model is independent of any database management system and serves as the foundation for our design.

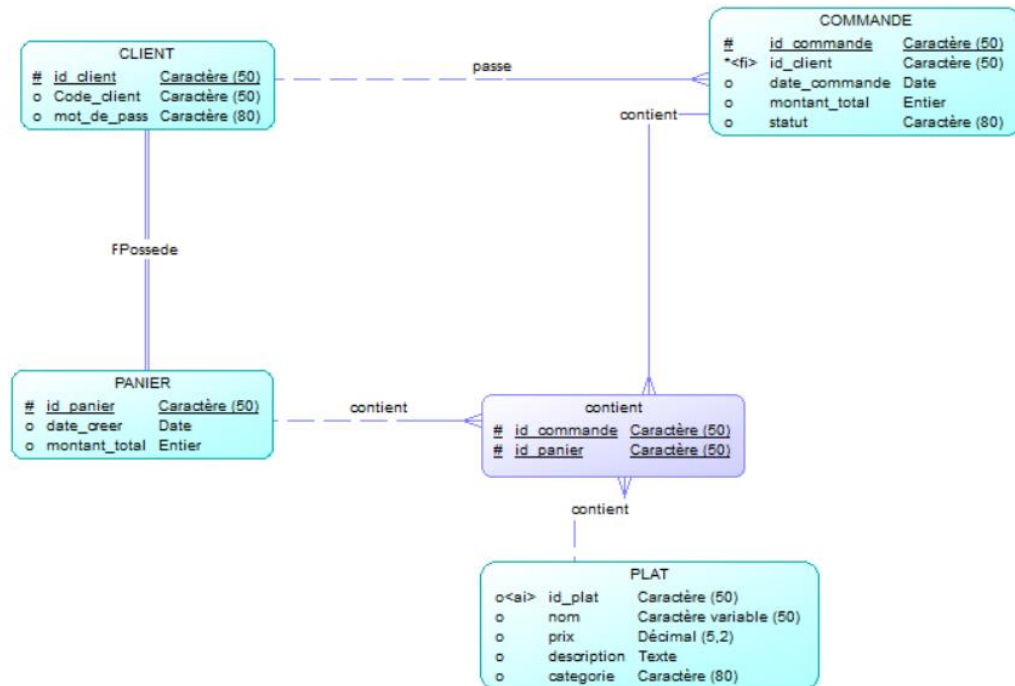


By progressing through these three levels of data modeling, we ensure a robust and well-structured database design that will effectively support the functionality of our online food ordering system.

2. Logical Data Model (MLD):

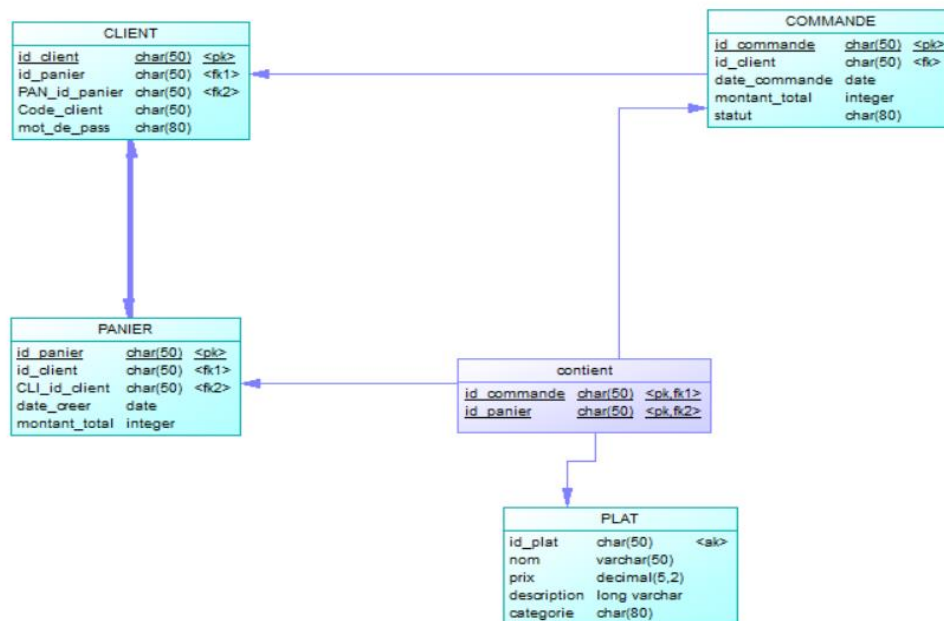
Building on the MCD, the MLD introduces more detail, including attributes for each entity and the specification of primary and foreign keys. This model represents the logical structure of the database, still independent of any specific database technology.

3.



Physical Data Model (MPD):

The MPD translates the logical model into a specific database schema, taking into account the particularities of our chosen database management system (in this case, MySQL). This model includes details such as data types, indexing, and any performance optimizations.



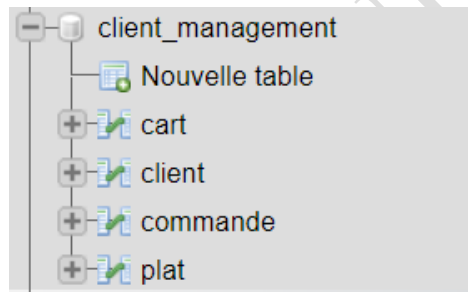
Program Execution Overview:

-This section presents the execution of the online food ordering system developed using PHP and MySQL. The application features a user identification menu, a shopping cart, and a visualization of orders, all designed to enhance the user experience while ordering food online.

-The following screenshots demonstrate the key functionalities of the application, including user authentication, item selection, cart management, and the visual representation of the user's order summary. By showcasing these elements, we aim to illustrate the effectiveness of the system in streamlining the food ordering process and providing users with a seamless experience.

We create a database client management in phpMyAdmin:

client_management database:



And then the code php of each page in vscode :

```

EXPLORER
  PHP
    Cart_page.php
    login.php
    menu.php
    Plat_page.php
  Cart_page.php X
    18 <html lang="en">
    121 <body>
    122 <div class="container">
    131 <div class="plat-item">
    139 </div>/.plat-details
    140 </div>/.plat-item
    141 <?php endforeach; ?>
    142 <div class="total">Total: €<?php echo number_format($total, 2); ?></div>
    143 <form method="post">
    144 <button type="submit" name="validate" class="button">Validate Order</button>
    145 </form>
    146 <?php else: ?>
    147 <p>Your cart is empty</p>
    148 <?php endif; ?>
    149 </div>/.container
    150
    151 <div id="orderCompleteModal" class="modal">
    152 <div class="modal-content">
    153 <h2>Thank you for your visit!</h2>
    154 <p>Your order has been processed successfully.</p>
    155 <button onclick="closeModal()" class="button">Close</button>
    156 </div>/.modal-content
    157 </div>/#orderCompleteModal.modal
    158
    159 <script>
    160 <?php if (isset($orderComplete) && $orderComplete): ?>
    161 document.getElementById('orderCompleteModal').style.display = 'block';
    162 <?php endif; ?>
    163
    164 function closeModal() {
    165 document.getElementById('orderCompleteModal').style.display = 'none';
    166 window.location.href = 'menu.php'; // Redirect to menu page after closing modal
    167 }
    168 </script>
    169 </body>
    170 </html>

```

Login page:
We create table client and we add multiple clients :

✓ Affichage des lignes 0 - 3 (total de 4, traitement en 0,0003 seconde(s).)

`SELECT * FROM `client``

☐ Profilage [Éditer en ligne] [Éditer] [Expliquer SQL] [Créer le code source PHP] [Actualiser]

☐ Tout afficher | Nombre de lignes : 25 | Filtrer les lignes: Chercher dans cette table | Trier par clé : Aucun(e)

Options supplémentaires

	client_id	code_client	password
<input type="checkbox"/> Éditer Copier Supprimer	1	B8585	ensem123
<input type="checkbox"/> Éditer Copier Supprimer	2	Q789	ensem12
<input type="checkbox"/> Éditer Copier Supprimer	3	Y852	yasmine
<input type="checkbox"/> Éditer Copier Supprimer	4	uj589	ouazzine

When the client click on login and the password and the client code match the one in the table client we get directed to the menu page :

```

if ($stmt->rowCount() == 1) {
    $client = $stmt->fetch();
    if ($password == $client['password']) {
        session_start();
        $_SESSION['client_id'] = $client['client_id'];
        $_SESSION['code_client'] = $client['code_client'];
        header("Location: menu.php");
        exit();
    } else {
        $error = "Invalid password";
    }
} else {
    $error = "Client code not found";
}
} catch(PDOException $e) {
    $error = "Error: " . $e->getMessage();
}
}

```

Menu Page:

GOURMET MENU SELECTION

Select Ingredients (hold Ctrl/Cmd to select multiple):

- Eggs
- Milk and milk products
- Fats and oils
- Fruits
- Grain, nuts and baking products
- Herbs and spices
- Meat, sausages and fish

Plate Name:

Minimum Price (€): Maximum Price (€):

Origin/Category:

Select origin

[Add to Commande](#) [View Plat Choices](#)

Designed by YASMINE OUAZZINE

GOURMET MENU SELECTION

Select Ingredients (hold Ctrl/Cmd to select multiple):

- Eggs
- Milk and milk products
- Fats and oils
- Fruits
- Grain, nuts and baking products
- Herbs and spices
- Meat, sausages and fish

Plate Name:

Select origin

- Irish
- Japan
- Morocco
- France
- America
- Russian

Select origin

[Add to Commande](#) [View Plat Choices](#)

Designed by YASMINE OUAZZINE

The client chose the ingredient and the plat name the minimum price also as the maximum price and then the origin of the dish

We created the database table commande:

We will make a commande and visualize it in the table :

	commande_id	client_id	ingredients	plat_name	min_price	max_price	origine	created_at
1	1	1	Eggs, milk and milk products	Scrambled Eggs	20.00	30.00	Japan	2024-10-01 21:08:34
2	2	1	Fats and oils	yasmine	20.00	80.00	Irish	2024-10-10 21:30:17
3	3	1	Fats and oils	yasmine	20.00	80.00	Irish	2024-10-10 21:45:01
4	4	1	Fruits	sushi	40.00	20.00	Japan	2024-10-10 22:16:54
5	5	3	Grain, nuts and baking products	curry	12.00	13.00	Japan	2024-10-10 23:05:31

Order added successfully!

GOURMET MENU SELECTION

Select Ingredients (hold Ctrl/Cmd to select multiple):

- Eggs
- Milk and milk products
- Fats and oils
- Fruits
- Grain, nuts and baking products
- Herbs and spices
- Meat, sausages and fish

Plate Name:

Minimum Price (€): Maximum Price (€):

Origin/Category:

Japan

[Add to Commande](#) [View Plat Choices](#)


And then the client can click on view Plat choisés he will be directed to select from different dishes how many he wants :

Plat table :

<div><div><div></div><div></div></div></div>		▼ plat_id	name	description	price	origin	image_url	▲ 1
<input type="checkbox"/>	<div><div><div>✎ Éditer</div><div>✂ Copier</div><div>🗑 Supprimer</div></div></div>	5	Beef Stroganoff	Tender beef in a creamy mushroom sauce with noodle...	16.99	Russian	https://kitskitchen.com/wp-content/uploads/2021/10...	
<input type="checkbox"/>	<div><div><div>✎ Éditer</div><div>✂ Copier</div><div>🗑 Supprimer</div></div></div>	6	Borscht	Traditional beet soup with sour cream	9.99	Russian	https://natashaskitchen.com/wp-content/uploads/201...	
<input type="checkbox"/>	<div><div><div>✎ Éditer</div><div>✂ Copier</div><div>🗑 Supprimer</div></div></div>	3	Sushi Platter	Assorted fresh sushi including nigiri and maki rol...	22.99	Japan	https://static.blog.bolt.eu/LIVE/wp-content/upload...	
<input type="checkbox"/>	<div><div><div>✎ Éditer</div><div>✂ Copier</div><div>🗑 Supprimer</div></div></div>	4	Ramen	Rich broth with noodles, pork, egg, and vegetables	12.99	Japan	https://upload.wikimedia.org/wikipedia/commons/thu...	
<input type="checkbox"/>	<div><div><div>✎ Éditer</div><div>✂ Copier</div><div>🗑 Supprimer</div></div></div>	2	Tajine de Poulet	Slow-cooked chicken with preserved lemons and oliv...	14.99	Morocco	https://www.la-cuisine-marocaine.com/photos-recett...	
<input type="checkbox"/>	<div><div><div>✎ Éditer</div><div>✂ Copier</div><div>🗑 Supprimer</div></div></div>	1	Couscous Royal	Traditional Moroccan dish with semolina, vegetable...	15.99	Morocco	https://www.thespruceeats.com/thmb/A7dwSTY3yh3leQ1...	
<div><div><div><div></div><div></div></div></div><div><div><div><input type="checkbox"/> Tout cocher</div><div>Avec la sélection :</div><div><div><div>✎ Éditer</div><div>✂ Copier</div><div>🗑 Supprimer</div><div>📄 Exporter</div></div></div></div></div></div>								

Plat Page.php:


Gourmet Plat Selection



Couscous Royal

Traditional Moroccan dish with semolina, vegetables, and meat


€15.99



Tajine de Poulet

Slow-cooked chicken with preserved lemons and olives


€14.99



Sushi Platter

Assorted fresh sushi including nigiri and maki rolls


€22.99



Ramen

Rich broth with noodles, pork, egg, and vegetables


€12.99



Beef Stroganoff

Tender beef in a creamy mushroom sauce with noodles

€16.99



Borscht

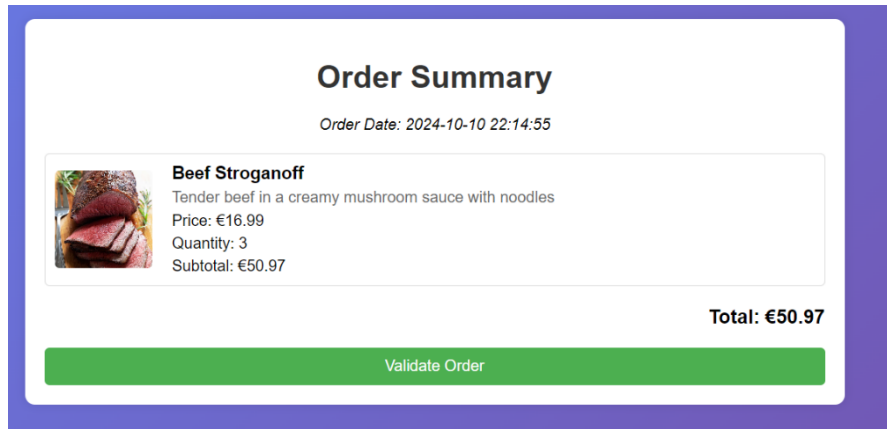
Traditional beet soup with sour cream

€9.99

Add to Cart

And then after the client chose the dishes and plates he want have will click on view cart he will get the summary of his order of course accompanied with a picture so he can view his order he have the choice between modify his order and validate order and then he will get the pop up message which indicated that his order was delivered successfully to the shop

Cart Page.php :



Order Summary

Order Date: 2024-10-10 22:14:55

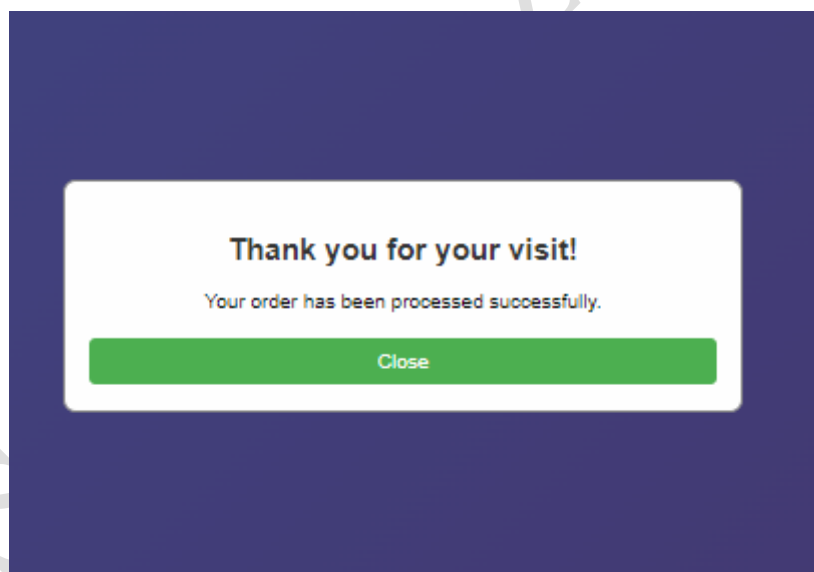
Beef Stroganoff
Tender beef in a creamy mushroom sauce with noodles
Price: €16.99
Quantity: 3
Subtotal: €50.97

Total: €50.97

Validate Order

It depends on what the client has chosen in this case I clicked on beef stroganoff tree times

After clicking on validate order we get this message :



When I validate the order should be registered in the Cart table of the database :

Options supplémentaires

				cart_id	client_id	order_date	plat_id	plat_name	quantity	price	total_amount	status
<input type="checkbox"/>	Éditer	Copier	Supprimer	1	1	2024-10-10 21:53:23	6	Borscht	2	9.99	19.98	Validated
<input type="checkbox"/>	Éditer	Copier	Supprimer	2	3	2024-10-10 22:21:36	5	Beef Stroganoff	3	16.99	50.97	Validated

☐ Tout cocher
 Avec la sélection :
 Éditer
 Copier
 Supprimer
 Exporter

CONCLUSION :

In conclusion, this project successfully demonstrates the development of an online restaurant shopping platform using PHP and SQL with a MySQL database managed through PHPMyAdmin. The application allows users to browse a menu, add items to their cart, and place orders, providing a seamless experience for online food ordering.

Through this project, I gained valuable insights into server-side scripting with PHP, database management using SQL, and the integration of web technologies to create a dynamic and interactive platform. The implementation of user authentication and order tracking further enhances the system's functionality, making it a comprehensive solution for online restaurant services. This project not only helped reinforce my understanding of web development but also offered practical experience in building scalable and efficient web applications.