



**Module Code & Module Title**

**CS6P05NP & Project**

**Level 6 - Project**

**Assessment Type**

**SRS Document**

**5<sup>th</sup> Semester**

**2023/24 Autumn**

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**Project Name:** Malt (Food Ordering Web Application)

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*I confirm that I understand my assessment needs to be submitted online via MST Classroom under the relevant module page before the deadline in order for my proposal to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

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## 1. Introduction

Malt is a web app for ordering food online from restaurants. With the fast-emerging digital age, the demand for online food ordering has risen rapidly, especially in urban areas. Traditional ways of ordering food are being replaced by efficient, user-friendly platforms that fit modern, fast-paced lifestyles.

This application will fill the gap in the market with a customizable, simple, and locally focused solution. It will enhance the ordering experience of customers and help restaurants expand their reach while optimizing order management. With its modern web technologies, Malt is well-positioned to provide the most user-friendly platform that aligns with the technological landscape and cultural aspects of Nepal.

## 2. Purpose of the project

The main purpose of this project is to create an easy-to-use web application called Malt for ordering food online. Many people still use traditional methods like phone calls or visiting restaurants to order food, which can be time-consuming and inconvenient. Malt aims to offer a more modern and efficient solution for both customers and restaurants.

The purpose of this project are as follows:

- To develop a web application that simplifies the process of ordering food online for customers.
- To provide a platform for restaurants to manage orders and reach a wider audience.
- To create a user-friendly interface that enhances the overall experience for both customers and restaurants.
- To ensure secure handling of online orders, payments, and customer data.
- To offer features like order tracking, search and filter options, and favorites to improve the user experience.
- To enable restaurants to easily update their menus and manage promotions through a simple dashboard.

### 3. Intended Use and Users

- The intended use of the application are as follows:
1. **Convenient Food Ordering:** Users can browse menus, view details about dishes, and order food online without needing to visit the restaurant physically.
  2. **Efficient Delivery Management:** Helps restaurants streamline order processing and delivery tracking.
  3. **Customizable Menus:** Restaurants can manage their menus, add new dishes and update prices.
  4. **User Profiles:** Enables users to save preferences, order history, and payment information for a personalized experience.
  5. **Secure Transactions:** Supports multiple payment options to allow users to pay securely using various methods like digital wallets and cash on delivery.
  6. **Promotions and Discounts:** Restaurants can promote events and discounts to retain customers and attract new ones.
  7. **Real-Time Order Tracking:** Provides customers with real-time updates on the status of their orders.

- The intended users of the application are as follows:

#### 1. Customers

Customers are the primary users of food-ordering applications, and their reasons for using these platforms include:

- **Convenience:**  
They can order food from the comfort of their homes or offices without needing to visit the restaurant.
- **Timesaving:**  
The process is faster than physically going to a restaurant, especially with features like saved addresses and payment details.

- **Variety:**

Access to a wide range of cuisines and restaurants in one place.

- **Order Tracking:**

Real-time updates on order preparation and delivery status provide transparency.

## 2. Restaurant Owners/Managers

Restaurant owners use food-ordering applications to expand their customer base and streamline online operations.

- **Increased Reach:**

They can reach customers who may not be aware of their restaurant.

- **Ease of Management:**

The platform provides tools for managing menus, orders, and promotions easily.

- **Sales Growth:**

Online ordering opens up a new revenue channel, especially for delivery and takeout orders.

## 4. Admins (Platform Owners)

Admins use food-ordering applications to oversee and grow the platform.

- **Revenue Generation:**

They earn commission from restaurants and delivery fees from customers.

- **Market Expansion:**

The application enables partnerships with multiple restaurants and attracts more users.

- **Operational Efficiency:**

Automated workflows reduce the need for manual interventions, making the business scalable.

## 4. System Features and Requirements

### 4.1 Functional Requirements

The functional requirements for the application are as follows:

#### 1. User Registration and Login

- **Secure Authentication:** Users can create an account using their email. They can log in securely after registering.
- **Password Reset:** If users forget their password, they can reset it through an easy process, like receiving a link via email.

#### 2. Restaurant Listings

- **Restaurant Information:** The application shows a list of restaurants with important details, like:
  - Name of the restaurant.
  - Location (address or area).

#### 3. Menu Display

- **Detailed Food Menus:** Each restaurant's menu is displayed with:
  - Food items and their descriptions.
  - Prices for each dish.
  - Images to help users decide what to order.

#### 4. Search and Filters

- **Search Option:** Users can search for specific restaurants or dishes by typing keywords.
- **Filter Options:** Users can narrow their search based on:
  - Price range
  - Food Category

## 5. Order Placement

- **Add-to-Cart:** Users can add multiple food items to a cart for a single order.
- **Order Summary:** Before placing the order, users can review the items they added, along with the total cost.

## 6. Basic Payment Options

- **Payment Gateways:** The application supports easy payment methods, including:
  - E-Sewa (Digital wallet in Nepal)
  - Cash on delivery for convenience.

This ensures users have multiple ways to pay for their order.

## 7. Order Confirmation

- **Instant Notification:** After placing an order, users immediately get a confirmation:
  - Inside the app (e.g., "Your order is confirmed").
  - Via email or SMS with order details.

## 8. User Profile Management

- **Profile Editing:** Users can update their personal information, such as name or phone number.
- **Address Management:** Add or change saved delivery addresses.
- **Payment Methods:** Save preferred payment options for faster checkout.

## 9. Responsive Design

- Optimized for both desktop and mobile devices.

## 10. Order Tracking

- Live status updates (e.g., order accepted, preparing, out for delivery, delivered).

## 11. Add to Favorites

- Users can save their favorite restaurants for quick access.

## 12. Promote events or offers

- Restaurants can promote their special events and offers.

## 13. Restaurant Dashboard

- Dedicated panel for restaurant owners to manage menus and orders.

## 4.2 Non-Functional Requirements

The non-functional requirements for the application are as follows:

### 1. Response Time:

The application web pages should load within 3 seconds for a seamless user experience and search results must be displayed within 2 second.

### 2. Access Control:

Only authorized admins should be allowed to manage restaurants and menus. Regular users should not have access to these controls.

### 3. Data Storage:

The application should securely store information about users, restaurants, menus, orders, and payments, ensuring no data is lost.

### 4. Feature Updates:

The application must be designed so that adding new features or improving existing ones can be done easily without breaking the current functionality.

### 5. Performance:

Pages should load quickly, with minimal delay, even on slower internet connections or mobile networks.

### 6. Security:

User data, including payment details, passwords, and personal information, must be protected with proper encryption and secure coding practices.

**7. Cross-Platform Compatibility:**

The application should work smoothly on different devices (e.g., smartphones, tablets, desktops) and operating systems like Android, iOS, and Windows.

**8. Error Handling:**

The app should show clear error messages if something goes wrong, like failed payments or network issues, without crashing.

**9. Version Control:** All code changes must be tracked and managed using a version control system (e.g., Git) to ensure efficient future collaboration, rollback options, and proper history tracking.**10. Database Optimization:** The database should be designed and optimized for quick data retrieval and minimal latency, even when handling large datasets or complex queries.**11. Code Quality:** The codebase should follow clean coding principles, be well-documented, and stick to standard guidelines to make it maintainable, readable, and error-free.

## 5. Review of similar applications

The following are the similar applications that are comparable to the one I aim to develop:

- **Foodmandu**



*Figure 1: Foodmandu logo*

Foodmandu is a **food delivery application** primarily operating in **Nepal**. It is a popular platform that connects customers with restaurants, enabling them to order food online and have it delivered to their doorsteps.

**Application Link:** <https://foodmandu.com/>

- **Pokhara Food Delivery**



*Figure 3: Pokhara Food Delivery logo*

The **Pokhara Food Delivery** application is a local **food delivery service** operating primarily in **Pokhara, Nepal**. It is designed to connect residents and visitors in Pokhara with nearby restaurants, providing them with a convenient way to order and enjoy food at their location.

**Application link:** <https://apps.pokharafooddelivery.com/>

- **Bhojdeals**



*Figure 5: Bhojdeals logo*

**Bhojdeals** is a **food delivery application** that operates primarily in **Nepal**, targeting cities like Kathmandu and Pokhara. It is unique in combining food delivery services with special discounts and offers.

**Application link:** <https://www.bhojdeals.com/>

- **FoodMood**



*Figure 7: Foodmood logo*

The **FoodMood** application is a **food delivery platform** operating primarily in **Nepal**, providing users with a convenient way to order food online from local restaurants. Its features focus on improving the food ordering experience by offering a wide variety of cuisines.

**Application Link:** <https://foodmood.com.np/>

## 6. Comparison with similar applications

*Table 1: Comparison with similar applications*

Features	Malt (My Application)	Food Mandu	Food Mood	Bhoj Deals	Pokhara Food Delivery
<b>User Registration &amp; Login</b>	Yes	Yes	Yes	Yes	Yes
<b>Food Image</b>	Yes	No	No	No	No
<b>Restaurant Listings</b>	Yes	Yes	Yes	Yes	Yes
<b>Food Description</b>	Yes	Yes	No	No	No
<b>Search and Filters</b>	Yes	Yes	Limited	Yes	No
<b>Add to Cart Functionality</b>	Yes	Yes	Yes	No	Yes
<b>Order Summary</b>	Yes	Yes	Yes	Yes	Limited
<b>Order Confirmation</b>	Yes	Yes	Yes	Yes	Yes
<b>Order Tracking</b>	Yes	Yes	No	No	No
<b>Favorites Feature</b>	Yes	No	No	No	No
<b>Promote Offers/Events</b>	Yes	Yes	No	Yes	No
<b>Responsive Design</b>	Yes	Yes	Yes	Limited	Yes
<b>Live Notifications</b>	Yes	Yes	Yes	Limited	No