

*Report on*

# ***Cloud Restaurant***

*Prepared for*

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**Course Name: Information System Design & Software Engineering Lab**

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## **Data Flow Diagram**

The Data Flow Diagram (DFD) provides a visual representation of how information flows within the Cloud Restaurant System. It consists of different levels, each offering a more detailed view of the processes involved. This hierarchical structure of the DFD ensures a clear and comprehensive understanding of the Cloud Restaurant System's functionality, aiding in the system's design, development, and maintenance. The DFD is divided into the following components:

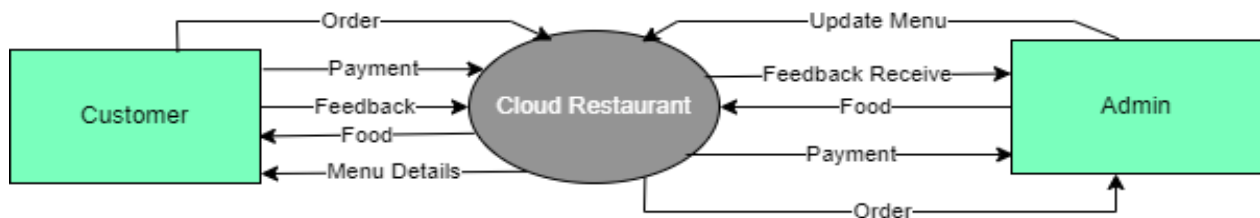
1. Context Level Diagram
2. Level 0 Diagram
3. Level 1-n Diagrams

## **Main Process and Sub Process Names**

1. Process User Data
  - Signup
  - Login
  - Manage User Information
  - Feedback
2. Food Management
  - Browse Food
  - Search Food
  - Add Food
  - Update Food
3. Order Management
  - Place Order
  - Payments

## Context Level Diagram

This highest-level diagram provides a broad view of the entire system, illustrating the interaction between external entities (such as Customers and Admins) and the Cloud Restaurant System.



## **Explanation:**

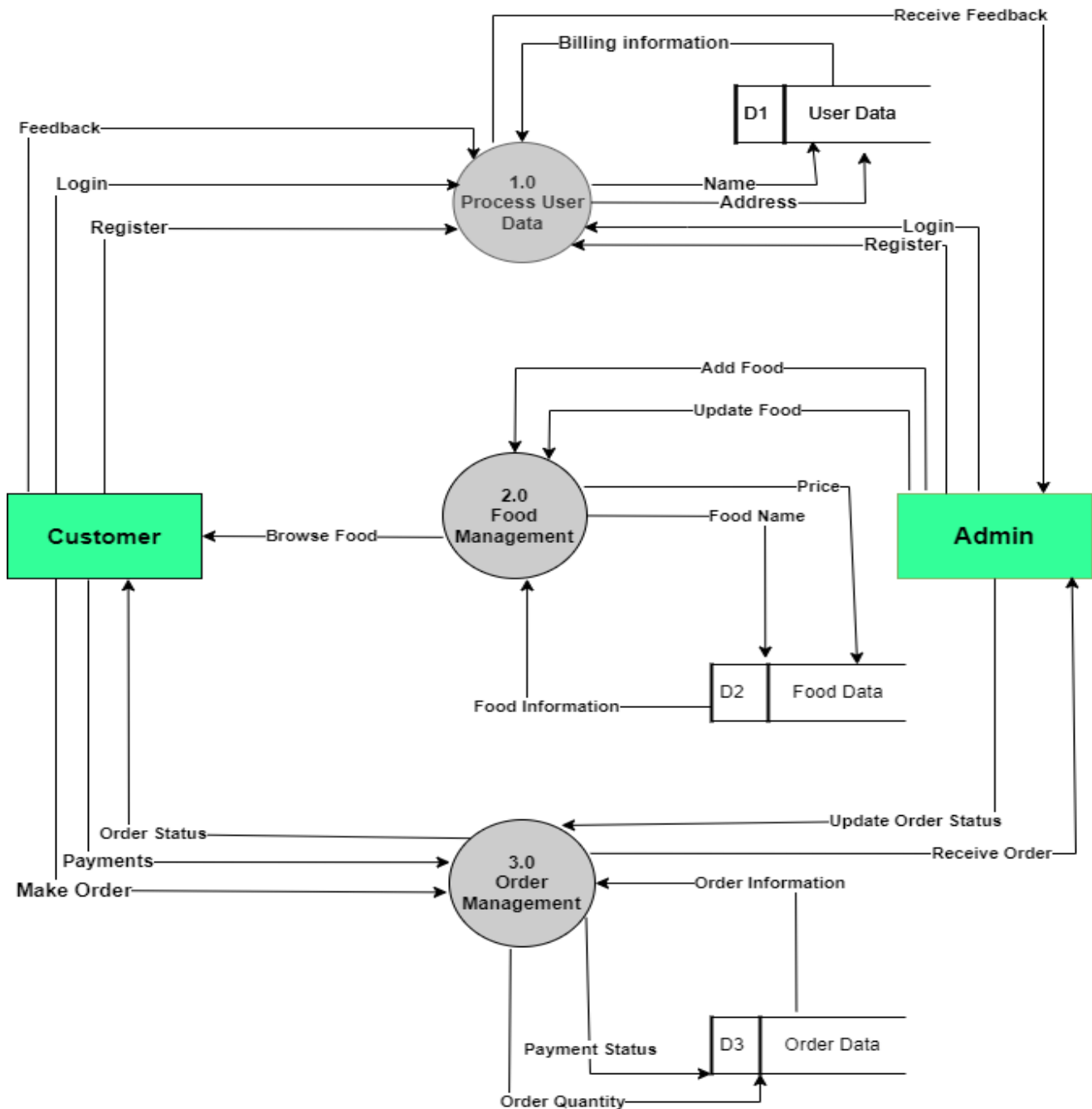
**Customer** The customer is the primary user of the Cloud Restaurant system. They interact with the system to browse the menu, place orders, make payments, and provide feedback.

**Admin:** The admin manages the Cloud Restaurant system. They are responsible for maintaining the menu, processing orders, and managing customer feedback.

**Main System (Cloud Restaurant):** The Cloud Restaurant system processes the data received from the customers and admins to perform its core functions. It consists of various internal processes such as managing user data, handling food items, and processing orders.

## Level 0 Diagram

This diagram breaks down the primary processes of the system, showing how data flows between the core components, including User Data Processing, Food Management, and Order Management, and how these processes interact with external entities and data stores.



## Explanation:

**Process User Data (1.0):** This process handles user registration and login, as well as storing user information like address and billing information.

**Food Management (2.0):** Handles menu management, including adding, updating, and retrieving food items.

**Order Management (3.0):** Manages order placement, processing, and payment.

## Data Stores:

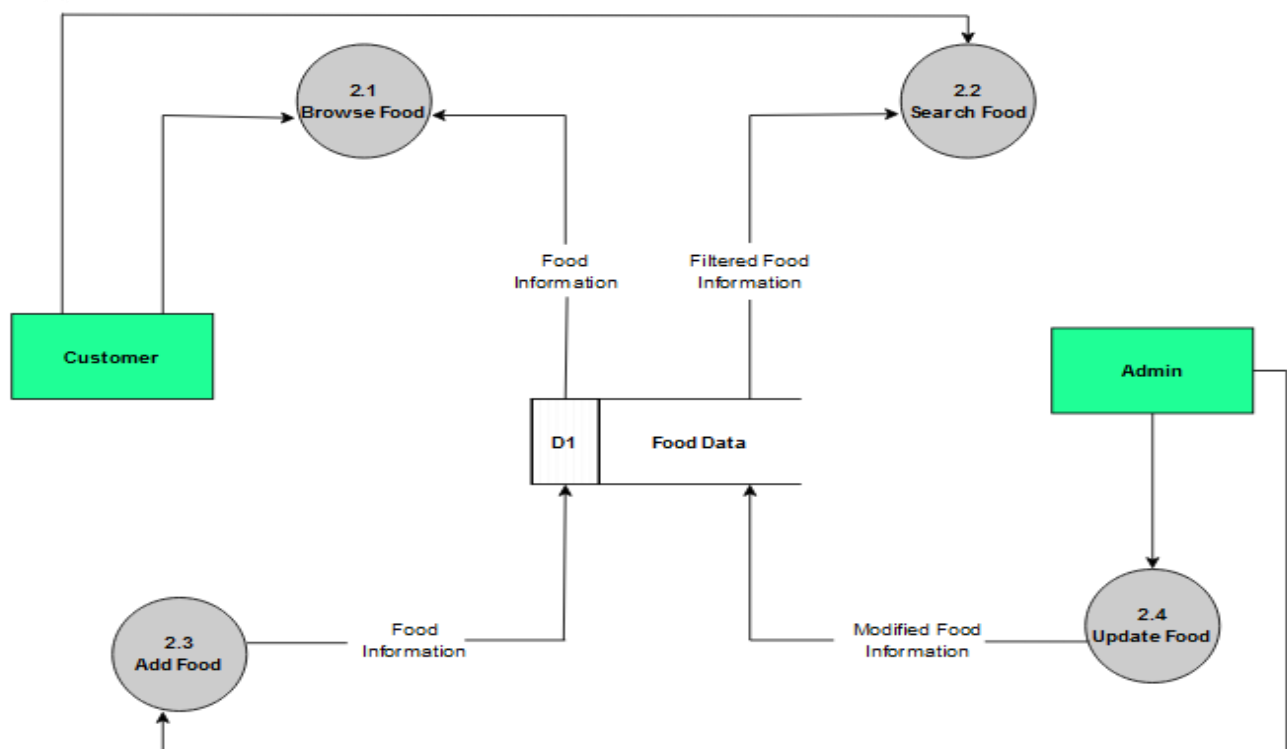
**User Data(D-1):** Stores user-related information including names, addresses, and billing details.

**Food Data (D2):** Stores information about menu items such as names, descriptions, prices, and availability.

**Order Data (D3):** Stores order-related information including order details, quantities, prices, customer information, payment details, and order status.

## Level 1 Diagrams

The Level 1 DFD provides a more detailed view of the sub processes within the core processes:



## **Explanation:**

**Browse Food (2.1):** Allows customers to view available food items.

**Search Food (2.2):** Enables searching for specific food items based on criteria.

**Add Food (2.3):** Admin adds new food items to the system.

**Update Food (2.4):** Admin updates existing food item details.

## **Data Stores:**

**D1 - User Data:** Stores user-related information including names, addresses, and billing information.

**D2 - Food Data:** Stores food-related information such as food names, prices, and descriptions.

**D3 - Order Data:** Stores order-related information including order details, quantities, and payment status.

## **Conclusion:**

The Cloud Restaurant System streamlines food ordering by providing a user-friendly interface for customers to place orders seamlessly, efficient order management tools for administrators to track and handle incoming orders, and easy status updates for delivery personnel to ensure timely deliveries. Through its intuitive design and robust functionality, the system enhances the overall dining experience by fostering smooth communication and coordination between stakeholders, ultimately leading to heightened satisfaction for all involved parties.