Fast Food Order System

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Introduction— The Fast-Food Order System is designed to solve the challenges that arise in managing customer orders in a fast-paced restaurant or food service setting. A key issue in many fast-food establishments is keeping track of the orders as they move through various stages—such as preparation and ready for pickup. Without an efficient system, employees may struggle to organize and manage orders, leading to delays, customer dissatisfaction, and errors in order handling.

This system addresses these problems by providing an easy-to-use interface for adding, updating, deleting, sorting, and searching orders. It helps streamline the order management process, providing a clear view of the orders that are in preparation and those that are ready for pickup. The system ensures that staff can handle orders efficiently, track their status in real time, and easily locate specific orders when needed.

OBJECTIVES

The Fast-Food Order System aims to meet several objectives related to effective order management, including:

1. **Add Orders to Preparation**: This functionality allows staff to input an order number and add it to the "PREPARING" list. This is done through a simple number input and a button that triggers the action.
2. **Transfer Orders from Preparation to Ready**: Once an order is prepared and ready to be picked up, staff can move it to the "READY" list using the "Move to READY" button.
3. **Delete Orders from Ready List**: After an order has been completed and picked up by the customer, it can be deleted from the "READY" list.
4. **Update Order Numbers**: This feature allows staff to update the order number in the "PREPARING" list, which helps accommodate changes or corrections to orders.
5. **Sorting Orders**: Both the "PREPARING" and "READY" lists can be sorted, ensuring the system maintains an organized order list. The sorting button triggers an automatic sort for both lists.
6. **Search Orders**: Staff can search for a specific order number in either the "PREPARING" or "READY" lists. If the order is found, the system will display a success message; otherwise, an error message will notify the user that the order is not available.
7. **CRUD Operations**: The system supports **Create** (adding orders), **Read** (viewing orders), **Update** (updating order numbers), and **Delete** (removing orders) operations. This gives flexibility in managing the orders in real time.

DISCUSSION

The Fast-Food Order System successfully solves the problem of managing orders in a fast-food environment. It achieves all the objectives outlined in the previous section and provides several key features that enhance efficiency in the workplace.

CRUD Operations

- **Create**: The system allows staff to easily add new orders to the "PREPARING" list using a number input field. The staff can input the order number, and with a click of a button, the order is added to the list if it is not already present. This ensures that no orders are mistakenly duplicated.
- **Read**: Both the "PREPARING" and "READY" lists are easily viewable, with orders displayed horizontally. The interface makes it clear which orders are being prepared and which are ready for pickup. The system also supports searching for orders, making it quick to locate a specific order number.
- **Update**: The system includes a feature for updating order numbers. If there is a need to change an order's number, staff can select the order from the "PREPARING" list and input the new order number. The order list is automatically updated, and the system ensures that no duplicate numbers exist in the "READY" or "PREPARING" lists.
- **Delete**: Once an order has been completed, it can be removed from the "READY" list. This function prevents completed orders from cluttering the system and ensures that only relevant orders are shown to staff.

Search and Sorting

- **Sorting**: The "PREPARING" and "READY" lists can be sorted in ascending order. This helps in maintaining an organized view of the orders. Sorting is done automatically when the staff clicks the "SORT Numbers" button, making it easy to find the oldest or most recent orders.
- **Search**: The search feature helps locate an order by its number in either the "PREPARING" or "READY" list. This ensures that staff can quickly find an order and check its status. If the order exists, the system shows a success message; if not, an error message is displayed.

Fast Food Order System

ORDER NUMBER

| 1 | − | + |

PREPARING

102 ⌄

READY

1 ⌄

Add to PREPARING

Move to READY

Delete Completed Order

ORDER NUMBER

102 ⌄

NEW ORDER NUMBER

| 1 | − | + |

ORDER NUMBER

| 0 | − | + |

UPDATE Order Number

SORT Numbers

SEARCH

Orders Currently PREPARING

| 102 | 103 | 104 |

Orders READY for Pickup

| 1 | 2 | 3 | 4 | 5 | 6 | 100 |