

# Database Systems Project

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## Project

Catering Service Management System

## Description & Assumptions

The system will function as follows:

- A welcome screen will prompt the user to select their role (Admin, Rider, Customer) and will proceed based on the selection.
- A Customer will enter their details in the system. There is no login feature but the system will check if the exact customer record already exists in the database. If not, their details will be inserted.
- The customer will then choose Food Items and add them to their Order.
- Each food item will belong to a category such as Rice, Burgers, Rolls, Frozen etc.
- Items in each category will be measured by either weight in kg or by the number of units.
- The customer can browse through items by category, and also choose the food item in "Today's Special".
- When a food item is selected, the customer will enter the quantity they wish to order. If the quantity is above the available amount, below the least possible amount, or invalid, an error message will be displayed. Else, the price for that quantity will be calculated and displayed.
- When checking out, the Customer will determine the payment method (online or cash on delivery). The total cost of the order will also be calculated and delivery charges will be added as well.
- Delivery charges are fixed regardless of customer location.
- The system will update the quantity of ingredients left when the order is confirmed.
- The status of the order (In Process or Delivered) will also be maintained.
- The Riders will pick their orders based on the order region and therefore optimize the route themselves. They will record the cash they receive and any cash they return to the customer. Once the order has been delivered and money has been received, the Rider will update the order status and the order will officially be complete.
- Riders can update their password only. They cannot add or delete anything.

- Cash returned/received is only applicable for orders where payments are not made online.
- The order status will initially be "In Process" after the order is confirmed. It will be marked as "Delivered" by the Rider when they deliver it.
- Admins can access and modify the database using the various forms available.
- Admins have specific roles (Owner etc.). There can be any number of unique rolls but there will only be one "owner" among admins. Only the owner can assign roles to different admins. Anyone can update their own password.
- Admins can add and modify food items and the ingredients they require. The quantity of ingredients used is measured in grams by default.
- The quantity of ingredients in stock is measured in kilograms.
- Admins can also use the generate report function to view different statistics.