

# SwiftBite A Food Delivery Management System

## Project Description -

Our project SwiftBite is a Food Delivery Management System that manages the interactions between customers, restaurants, delivery personnel, orders, payments, and menus. The system will provide CRUD functionality (Create, Read, Update, Delete) for each main entity and support reports, catalogs, and search operations.

## Main system classes -

- Customer (Day) – Stores information about each customer, including name, contact details, and order history.
  - CRUD Functionality: Customers can create, update, and remove their account. Admins can remove accounts. Employees can read accounts.
- Restaurant (Day) – Represents restaurants registered in the system. Contains menu items, restaurant details, and operating hours.
  - CRUD Functionality: Admins can create, read, update, and delete restaurants from the system. Customers and employees can read restaurant details.
- Delivery Person (Day) – Manages information about delivery personnel, including their availability, assigned orders, and performance.

- CRUD Functionality: Employees and admins can create, read, update, and delete accounts and information. Customers can read delivery person accounts.
- Order (Lazo) – Handles customer orders, including order status (pending, in progress, delivered), list of ordered items, and associated restaurant.
  - CRUD Functionality: Customers can create, read, update, and delete orders. Admins can read and delete orders. Employees can read orders.
- Payment (Lazo) – Tracks order payments, including amount, method (credit card, debit card, cash), and payment status.
  - CRUD Functionality: Payments are created automatically with orders. Customers can read their own payments. Admins can remove orders. Employees can read payments as well.
- Menu (Lazo) – Contains the list of items offered by restaurants, including item names, descriptions, and prices.
  - CRUD Functionality: Customers can read menus. Employees can also read menus. Admins can create, read, update, and delete menus.

#### Additional Entities:

- Username/Password Page (Lazo) - Page to enter credentials to log in as employee, admin, or customer.

- Delivery Vehicle (Lazo) - Entity for the vehicle that is being used by a delivery driver and who is responsible for it.
- Request (Day) - Entity that is created so restaurant owners can send requests to admins to change certain things about restaurant information.
- Discount/Coupon (Day) - Entity that is used by the customer to apply a discount to the order. The program includes a list of viable coupons for use.