

UE19CS353 : OBJECT ORIENTED ANALYSIS AND DESIGN

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Problem Statement :

Prepare the class diagram for an Online Grocery Store, by identifying the classes, attributes, relationships and their cardinality.

Online Grocery Store:

A Customer with details like Email and Phone Number has an account on the website. The account details include the billing address, account status (New, Active, Blocked, Inactive etc.) and a password. The Customer can associate multiple Shipping Addresses with their account. The account is linked to a Shopping Cart with details like create date and a computed attribute, the number of items in the cart. The shopping cart contains line items with discounts (if any) and quantity for each. The line item is for a specific grocery product whose details include name, price and supplier. The grocery product can be a daily needs product (like vegetable, dairy product, etc) with an expiry date or a home needs product (like beauty product, toiletries, etc) with description and constituents. Once the customer checks out items in the shopping cart, an order is created with the corresponding line items. The order has details like order date, shipping date, ship to address, order total and the order status (New, Cancelled, Shipped, Delivered and Closed). The order is also linked to the payment details like date, mode, total amount and other details based on the mode.

Identified Classes :

- Customer
- Shopping Cart
- Order
- Account Details
- Shipping Address
- Line items
- Grocery Product
- Payment Details
- Home product
- Daily product

