

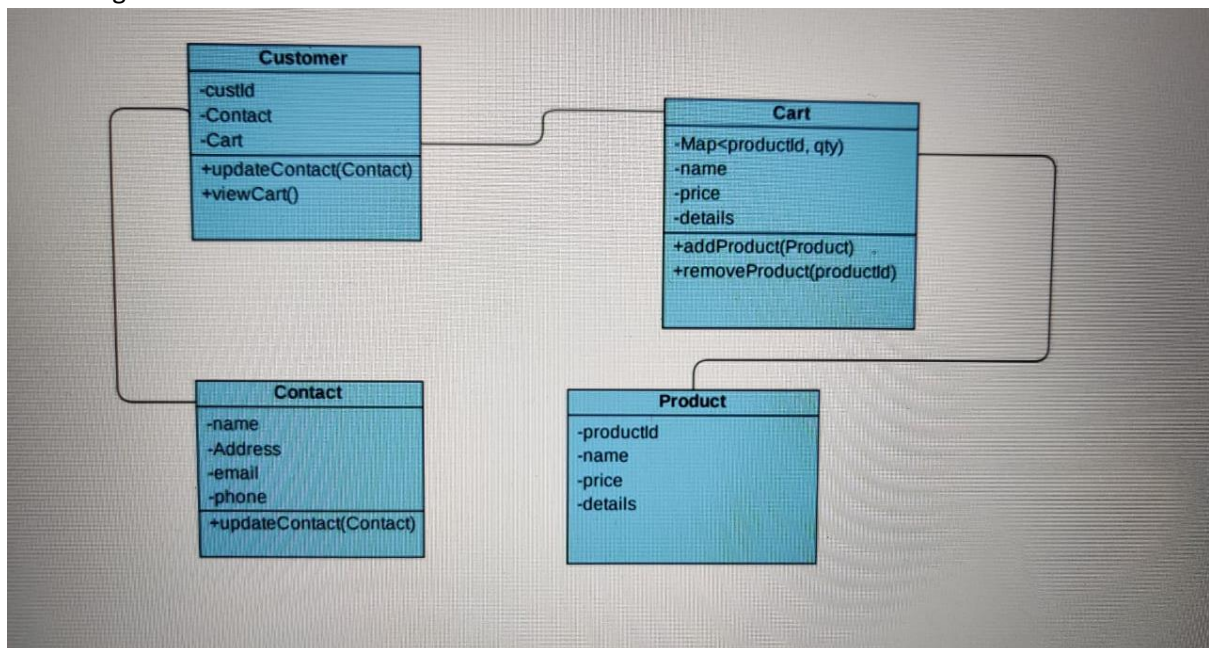
# System Design for Shopping Cart:

## System Requirements

We will be designing a system with the following requirements:

1. Users should be able to add new products to the cart via Choice:
  - Via Product ID
  - Via Product Name
2. Users should be able to view all the products in the inventory.
3. Users should be able to remove product items in their shopping cart.
4. Users can check out and buy items in the shopping cart.
5. The user should be able to add or update their contact details Dynamically
6. Users should be able to create the invoice after checkout.
7. Invoice Files will be Created.
8. Users should be able to view all the products in their Cart.

## Class Diagram



## Use Case Diagram

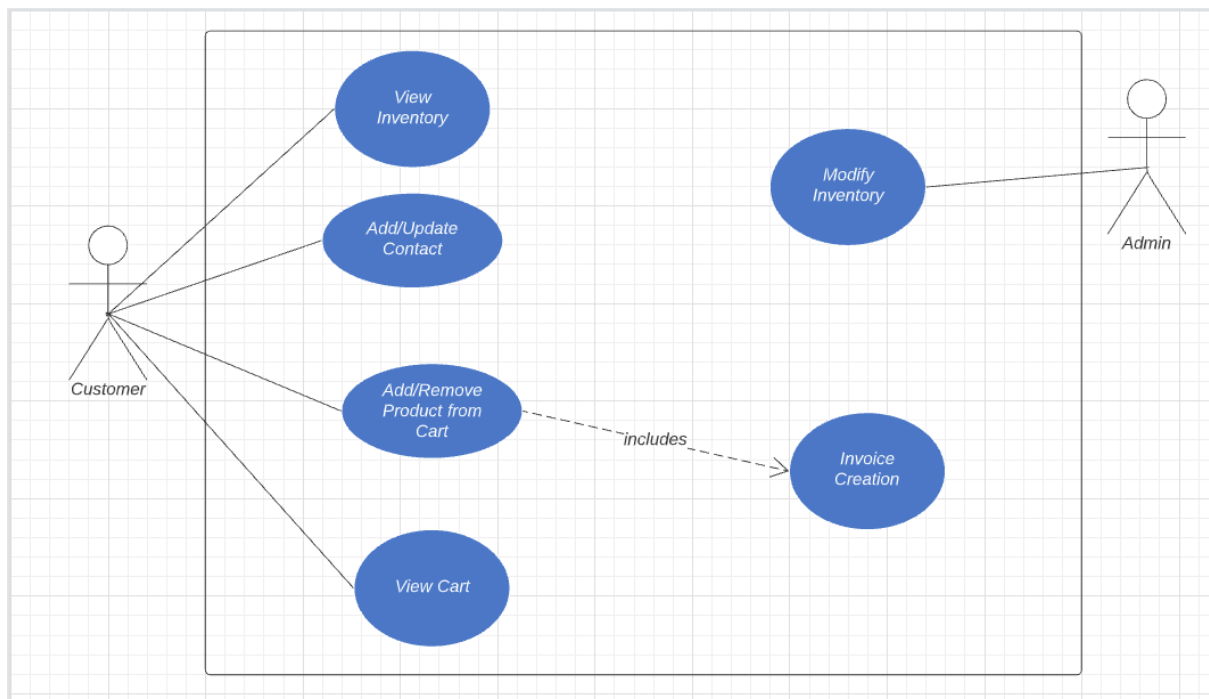
We have only one main Actor in our system:

- **Admin:** Mainly responsible for Creating Invoice and adding new product in the Inventory.
- **Customer:** All Customers can view the inventory, add/remove items to the shopping cart, and then Checkout by getting an Invoice.

Here are the top use cases of the Online Shopping System:

1. Add/remove product items in the shopping cart.
2. Check-out to buy product items in the shopping cart.
3. Add/Update Contact Details of Customer.
4. View/Update Cart before the creation of Invoice.

Here is the use case diagram of our Online Shopping System:



Database Design Diagram:

To be Integrated.

Note: Basic Functionality has been achieved by using file Handling.