



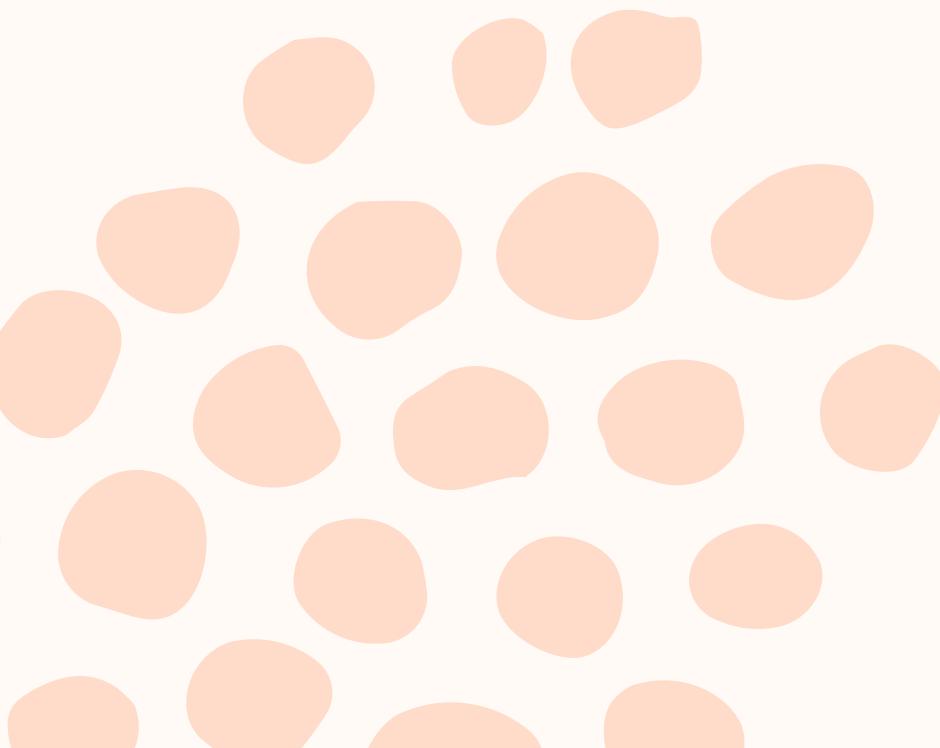
Supermarket  
billing  
system

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# *Introduction*



# Introduction

## Objective

The primary goal of this Supermarket Billing System is to simulate a user-friendly interface for a supermarket

## Features

- Display available items with stock
- Add items to cart with quantity and stock validation
- View cart
- Generate bill with payment options (Cash, Credit Card, Digital Wallet)
- Exit option

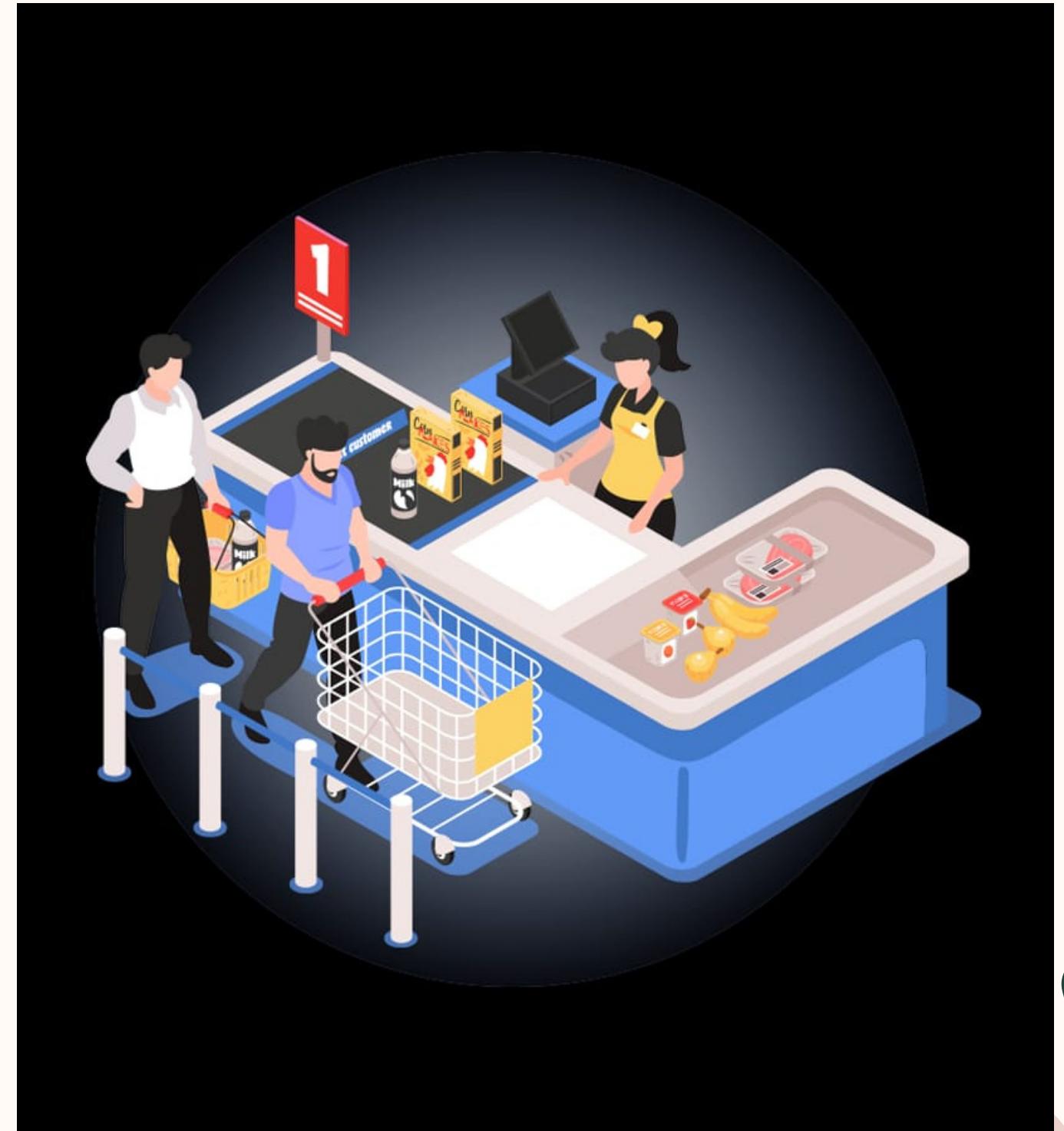
# Class Structure

**Item Class:**

Represents a supermarket item with name and price.

**CartItem Class:**

Connects an Item with a quantity, forming a cart item.



# Project initialisation

## **STATIC LISTS:**

`availableItems`: Stores available items.

`cart`: Stores items added to the cart.

## **INITIALIZATION METHOD:**

`initializeItems()`: Adds default items to `availableItems`.



# Main Method



## MENU-DRIVEN INTERFACE:

User can choose options: Display items, Add to cart, View cart, Generate bill, Exit.

# Menu Options

## 1. DISPLAY AVAILABLE ITEMS:

Calls  
displayAvailableItems()  
method.

## 2. ADD ITEMS TO CART:

Invokes addToCart()  
method with quantity  
and stock validation.

## 3. VIEW CART:

Displays items in the  
cart using viewCart()  
method.

## 4. GENERATE BILL:

Calculates and prints  
the bill.

Offers payment options:  
Cash, Credit Card,  
Digital Wallet.

## 5. EXIT:

Exits the program.

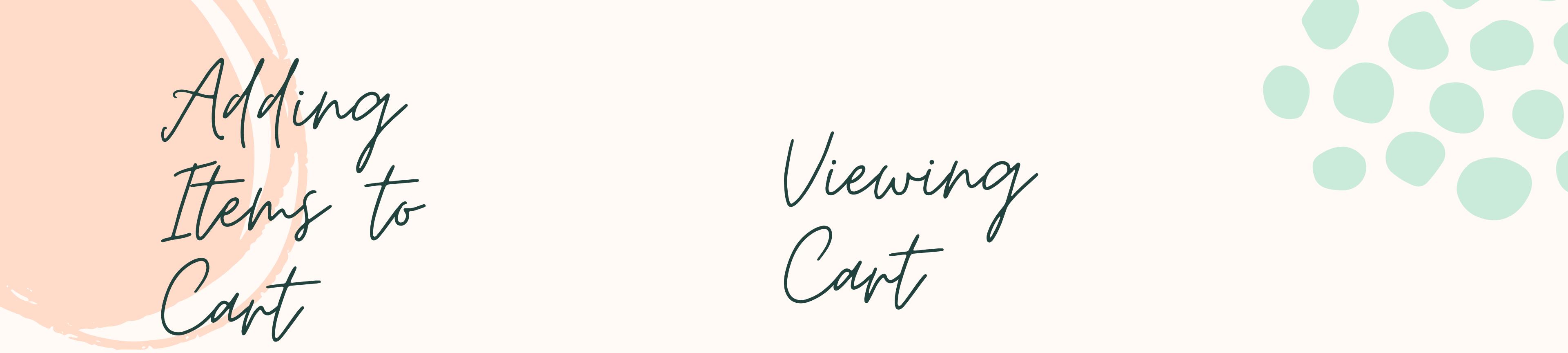
# *Item Initialization*

**ITEMS ADDED IN  
INITIALIZEITEMS():**  
Bread, Milk, ... (with  
prices and initial  
stock).

# *Display Available Items*

**METHOD  
DISPLAYAVAILABLEITEMS():**

Prints the available  
items with their prices  
and current stock.



# *Adding Items to Cart*

## **METHOD: ADDTOCART():**

Prompts the user for item name and quantity.

Validates quantity and stock before adding to the cart.

# *Viewing Cart*

## **METHOD: VIEWCART():**

Shows items and quantities in the cart.

# *Generating Bill*

## **METHOD:**

### **GENERATEBILL():**

Calculates and prints the bill.

Allows choosing payment option (Cash, Credit Card, Digital Wallet).

# *Payment Processing*

## **METHOD:**

### **PROCESSPAYMENT():**

Processes payment based on user's choice.  
Displays payment success message.

# Conclusion

Efficient and Stock-Aware:  
Manages item stock during the  
shopping process.

Thank you for  
Shopping



Presented  
by

1602-22-733-122

K.Sree Sai Chandana

1602-22-733-081

M.Deekshitha Reddy



Thank  
you