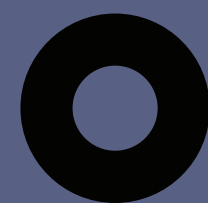


REPORT



Sathyabama Institute of Science and Technology

Trained by: FacePrep

PROJECT TITLE



TEAM MEMBERS

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BRANCH:- CSE

Batch:Dream Batch

SECTION:-FA03

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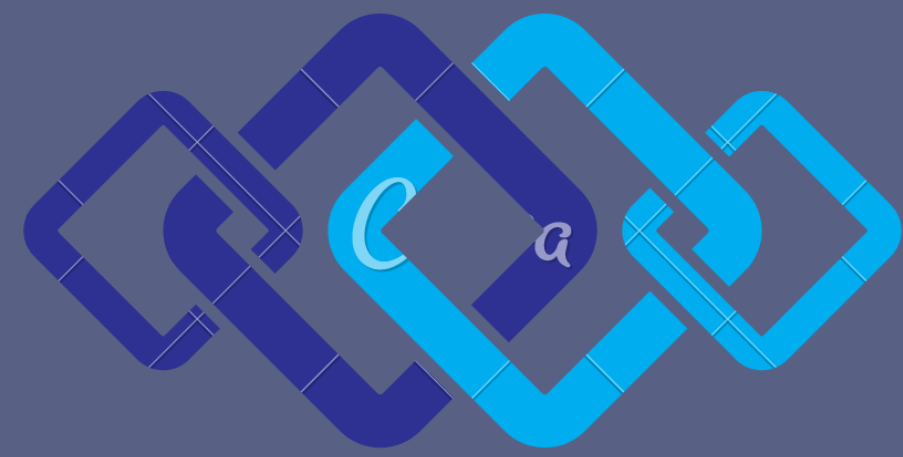
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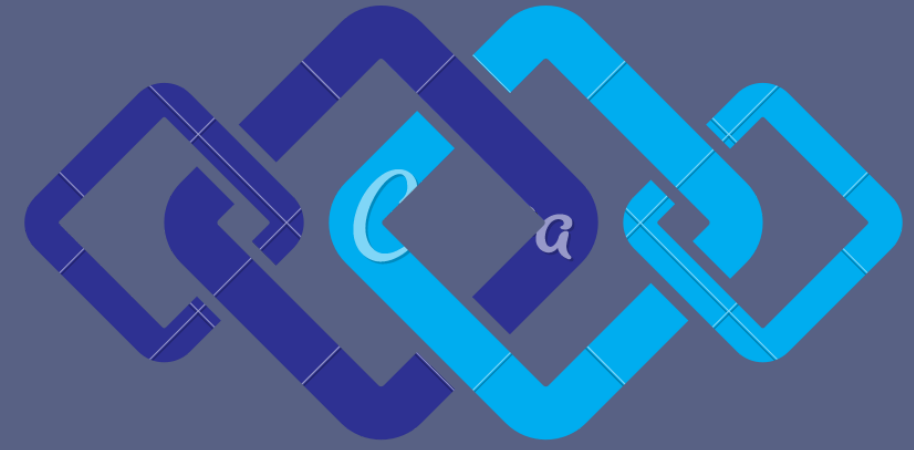
Batch:Dream Batch

SECTION:-FA03



Introduction:

- Welcome to the presentation on the Supermarket Billing System implemented using Java.
- In today's digital age, efficient and accurate billing systems are crucial for the smooth operation of supermarkets and retail stores.
- Our project aims to provide a robust solution for automating the billing process in supermarkets, enhancing accuracy, speed, and customer satisfaction.
- The Supermarket Billing System using Java is a comprehensive software solution designed to modernize and optimize the billing process within a supermarket or retail environment.
- This project aims to revolutionize traditional manual billing methods by introducing automation, accuracy, and efficiency through innovative software technologies.

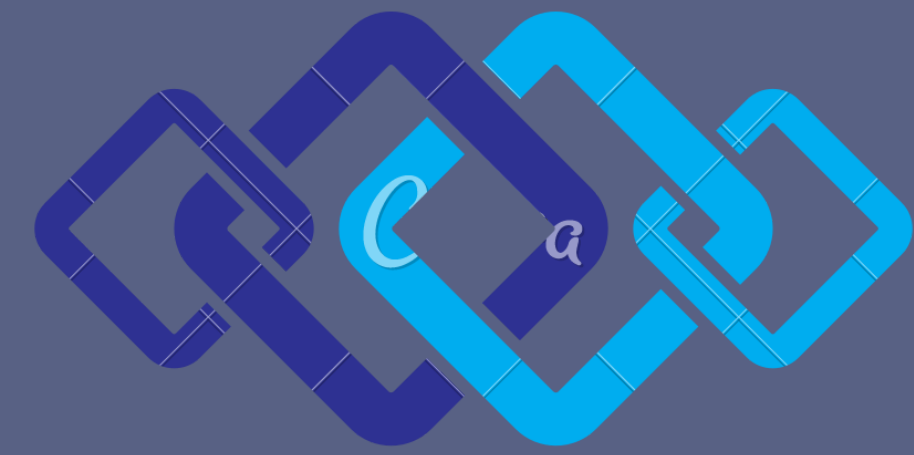


Project Overview

- The Supermarket Billing System is a Java-based application designed to streamline the billing process in supermarkets.
- It offers a user-friendly interface for both cashiers and customers, ensuring a seamless checkout experience.
- Our system efficiently manages inventory, calculates bills, and generates receipts, reducing manual errors and saving time.

Code Snippets

Coded in Eclipse



```
1 package placementproject;
2 import java.util.*;
3
4 class Item {
5     private String name;
6     private double price;
7
8     public Item(String name, double price) {
9         this.name = name;
10        this.price = price;
11    }
12
13    public String getName() {
14        return name;
15    }
16
17    public double getPrice() {
18        return price;
19    }
20 }
21
22 class ShoppingCart {
23     private Map<Item, Integer> cart;
24
25     public ShoppingCart() {
26         cart = new HashMap<>();
27     }
28
29     public void addItem(Item item, int quantity) {
30         if (cart.containsKey(item)) {
31             int currentQuantity = cart.get(item);
32             cart.put(item, currentQuantity + quantity);
33         } else {
34             cart.put(item, quantity);
35         }
36     }
37
38     public double calculateTotal() {
39         double total = 0;
40         for (Map.Entry<Item, Integer> entry : cart.entrySet()) {
41             Item item = entry.getKey();
```

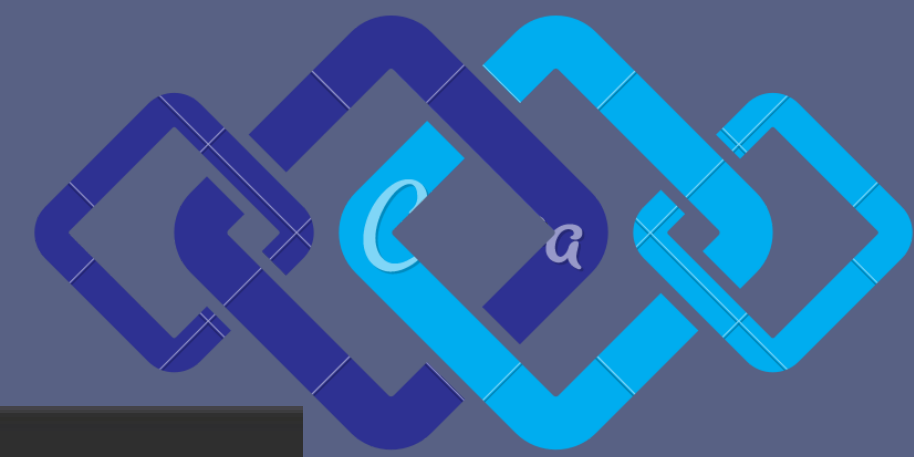
```
38     public double calculateTotal() {
39         double total = 0;
40         for (Map.Entry<Item, Integer> entry : cart.entrySet()) {
41             Item item = entry.getKey();
42             int quantity = entry.getValue();
43             total += item.getPrice() * quantity;
44         }
45         return total;
46     }
47
48     public Map<Item, Integer> getCartItems() {
49         return cart;
50     }
51 }
52 class Manage{
53     void add_to_menu(List<Item> li, String na, double pr){
54         Item i = new Item(na,pr);
55         li.add(i);
56     }
57 }
58
59 public class SupermarketBillingSystem {
60     public static void main(String[] args) {
61         Scanner scanner = new Scanner(System.in);
62         ShoppingCart cart = new ShoppingCart();
63         List<Item> availableItems = new ArrayList<>();
64         Item it = new Item("DragonFruit",150.0);
65         Item it2 = new Item("Toys",100.0);
66         Item it3 = new Item("DairyMilkSilk",80.0);
67         Item it4 = new Item("MilkPackeet",30.0);
68         Item it5 = new Item("Bread",40.0);
69         availableItems.add(it);
70         availableItems.add(it2);
71         availableItems.add(it3);
72         availableItems.add(it4);
73         availableItems.add(it5);
74         System.out.println("Welcome to the Supermarket Billing System!");
75         while (true){
76             System.out.println("1.Shopper Dashboard");
77             System.out.println("2.Customer Dashboard");
78             System.out.println("0 to exit");
```

Code Snippets



```
74     System.out.println("Welcome to the Supermarket Billing System!");
75     while (true){
76         System.out.println("1.Shopper Dashboard");
77         System.out.println("2.Customer Dashboard");
78         System.out.println("0 to exit");
79         int ch = scanner.nextInt();
80         if (ch == 1){
81             Manage mn = new Manage();
82             System.out.println("Add To Menu:");
83             System.out.println("Enter Item name:");
84             scanner.nextLine();
85             String nm = scanner.nextLine();
86             System.out.println("Enter Price:");
87             int pr = scanner.nextInt();
88             mn.add_to_menu(availableItems, nm, pr);
89         }
90     }
91     else if (ch == 2){
92         while (true) {
93             System.out.println("\nAvailable Items:");
94             for (int i = 0; i < availableItems.size(); i++) {
95                 System.out.println((i + 1) + ". " + availableItems.get(i).getName() + " - Rs " + availableItems.get(i).getPrice());
96             }
97             System.out.println("0. Checkout");
98
99             System.out.print("Enter the item number to add to cart (or 0 to checkout): ");
100             int choice = scanner.nextInt();
101             if (choice == 0) {
102                 break;
103             }
104             if (choice < 1 || choice > availableItems.size()) {
105                 System.out.println("Invalid choice. Please try again.");
106                 continue;
107             }
108
109             System.out.print("Enter the quantity: ");
110             int quantity = scanner.nextInt();
111
112             Item selected = availableItems.get(choice - 1);
113             cart.addItem(selected, quantity);
114             System.out.println(quantity + " " + selected.getName() + "(s) added to cart ");
115         }
116     }
117 }
```

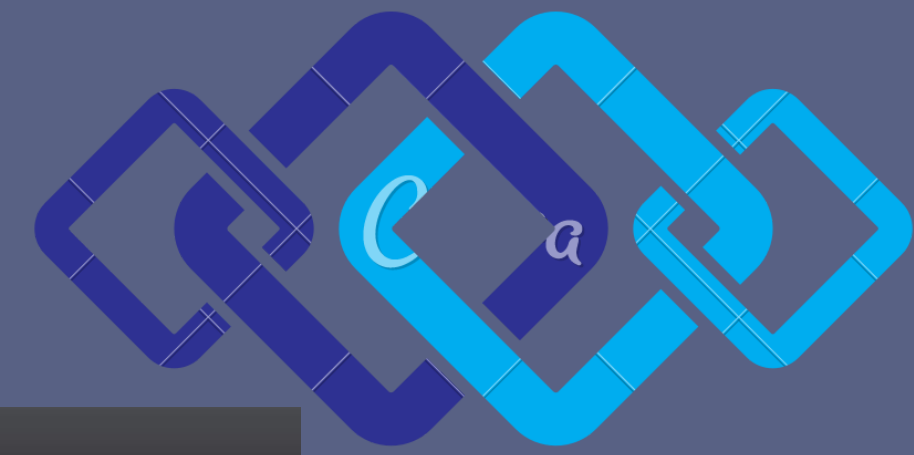
Code Snippets



```
113         cart.addItem(selected, quantity);
114         System.out.println(quantity + " " + selected.getName() + "(s) added to cart.");
115         System.out.println("CART ITEMS:");
116         for (Map.Entry<Item, Integer> entry : cart.getCartItems().entrySet()) {
117             Item item2 = entry.getKey();
118             int quantity2 = entry.getValue();
119             System.out.println(item2.getName() + " " + quantity2);
120         }
121     }
122     double total = cart.calculateTotal();
123     if (total >= 500) {
124         System.out.println("\nReceipt:");
125         System.out.println("-----");
126         for (Map.Entry<Item, Integer> entry : cart.getCartItems().entrySet()) {
127             Item item = entry.getKey();
128             int quantity = entry.getValue();
129             System.out.println(item.getName() + "\t" + quantity + "\tRs " + (item.getPrice() * quantity));
130         }
131         System.out.println("-----");
132         System.out.println("Total\t\tRs " + total);
133         System.out.println("-----");
134         double total2 = total - total * (0.20);
135         System.out.println("*DISCOUNT*");
136         System.out.println("Total\t\tRs " + total2);
137         System.out.println("-----");
138     }
139     else {
140         System.out.println("\nReceipt:");
141         System.out.println("-----");
142         for (Map.Entry<Item, Integer> entry : cart.getCartItems().entrySet()) {
143             Item item = entry.getKey();
144             int quantity = entry.getValue();
145             System.out.println(item.getName() + "\t" + quantity + "\tRs " + (item.getPrice() * quantity));
146         }
147         System.out.println("-----");
148         System.out.println("Total\t\tRs " + total);
149         System.out.println("-----");
150     }
151     else {
152         return;
153     }
154 }
```


Output Snippets

Output in console



```
Problems Javadoc Declaration Console ×
SupermarketBillingSystem [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe (22-Mar-20
Welcome to the Supermarket Billing System!
1.Shopper Dashboard
2.Customer Dashboard
0 to exit
1
Add To Menu:
Enter Item name:
Apple
Enter Price:
50
1.Shopper Dashboard
2.Customer Dashboard
0 to exit
2

Available Items:
1. DragonFruit - Rs 150.0
2. Toys - Rs 100.0
3. DairyMilkSilk - Rs 80.0
4. MilkPackeet - Rs 30.0
5. Bread - Rs 40.0
6. Apple - Rs 50.0
0. Checkout
Enter the item number to add to cart (or 0 to checkout): 1
Enter the quantity: 1
1 DragonFruit(s) added to cart.
CART ITEMS:
DragonFruit 1

Available Items:
1. DragonFruit - Rs 150.0
2. Toys - Rs 100.0
3. DairyMilkSilk - Rs 80.0
4. MilkPackeet - Rs 30.0
5. Bread - Rs 40.0
6. Apple - Rs 50.0
0. Checkout
Enter the item number to add to cart (or 0 to checkout): 6
Enter the quantity: 4
4 Apple(s) added to cart.
```

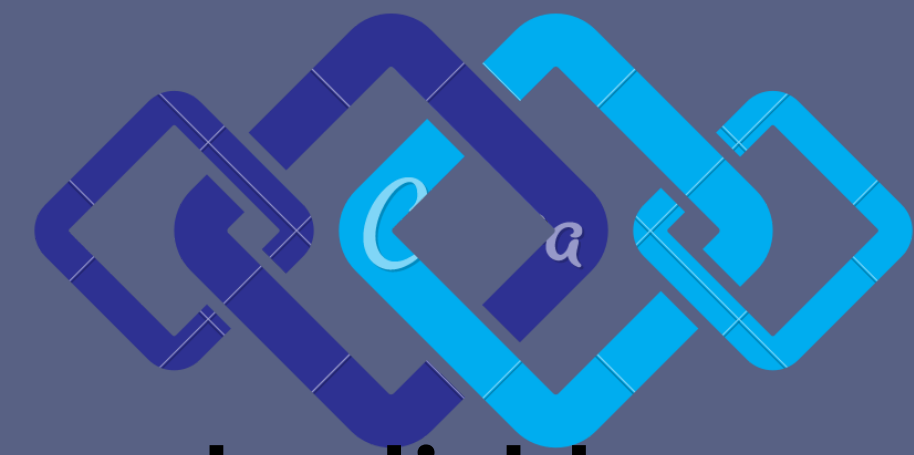
```
Problems Javadoc Declaration Console ×
<terminated> SupermarketBillingSystem [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.e
CART ITEMS:
DragonFruit 1

Available Items:
1. DragonFruit - Rs 150.0
2. Toys - Rs 100.0
3. DairyMilkSilk - Rs 80.0
4. MilkPackeet - Rs 30.0
5. Bread - Rs 40.0
6. Apple - Rs 50.0
0. Checkout
Enter the item number to add to cart (or 0 to checkout): 6
Enter the quantity: 4
4 Apple(s) added to cart.
CART ITEMS:
Apple 4
DragonFruit 1

Available Items:
1. DragonFruit - Rs 150.0
2. Toys - Rs 100.0
3. DairyMilkSilk - Rs 80.0
4. MilkPackeet - Rs 30.0
5. Bread - Rs 40.0
6. Apple - Rs 50.0
0. Checkout
Enter the item number to add to cart (or 0 to checkout): 0

Receipt:
-----
Apple    4          Rs 200.0
DragonFruit 1      Rs 150.0
-----
Total                Rs 350.0
-----

1.Shopper Dashboard
2.Customer Dashboard
0 to exit
0
|
```



Conclusion:

- The Supermarket Billing System offers an efficient and reliable solution for managing billing processes in supermarkets.
- This Supermarket Billing System demonstrates the power of Java in creating efficient and user-friendly applications.
- It simplifies billing processes and paves the way for further functionalities, contributing to a more streamlined supermarket experience.

The background is a solid dark blue-grey color. It is decorated with several circles of varying sizes and colors. In the top right, there is a large purple circle and a medium blue circle. Below the large purple circle is a small orange-to-purple gradient circle. In the bottom left, there is a large purple circle and a medium blue circle. To the left of the bottom-left blue circle is a small orange-to-purple gradient circle. The text "Thank You" is centered in the middle of the image in a white, bold, sans-serif font.

Thank You