RETAIL BILLING SYSTEM

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REQUIREMENTS:

INTRODUCTION

This mini-project is a console application using the C programming language. This project compiled in VS code with the GCC compiler. In this console application, you can do basic billing managements like create bill, invoice, add items and delete items … etc

COST AND FEATURES

When talking about the billing system there are a lot of things that are to be taken into consideration. its features as wells as to generate an application which can be used in any departmental store, shops, cafes etc.

Now the Common Features Include:

- Login
- Add items
- Display items
- Delete items

SWOT ANALYSIS

S-STRENGTH

- This project involves adding and deleting the items
- It reduces the manual work
- Easy to use

W-WEAKNESS

- It requires good network connection
- It requires uninterupted power supply

O-OPPORTUNITIES

- Mobile applications can be developed

T-THREATS

- User authentication

4W's and 1'H

Who:

The project can be used almost by all the retailer Shops. At the end, user satisfaction is the goal of the project.

What:

Adding, deleting and viewing of the items can be done by this system.

When:

The project can be used when the items needs to be added, viewed or removed.

Where:

All the retail shops can use this software as the purpose of billing the items.

How:

It reduces the time and improves the sales of the retail shops.

DETAIL REQUIREMENTS

HIGH LEVEL REQUIREMENTS:

ID	Description	Status
HLR1	OS (Windows 10/Linux)	Implemented
HLR2	C language	Implemented
HLR3	AMD/INTEL Processor	Implemented
HLR4	RAM(2GB)	Implemented
HLR5	ROM(2GB)	Implemented

LOW LEVEL REQUIREMENTS:

ID	Description	Status
LLR1	Functions to Add Items	Implemented
LLR2	Functions to View Bill	Implemented
LLR3	Functions to Delete Items	Implemented

STRUCTURAL DIAGRAM


```
START  ●  ───────────▶  ┌─────────────────┐
                        │ Login to the billing │
                        │ system          │
                        └─────────────────┘
                                 │
                                 ▼
                        ┌─────────────────┐
                        │ Check user Level │
                        │ and permission  │
                        └─────────────────┘
```

Check Permissions	Check Permissions	Check Permissions	Check Permissions	Check Permissions	Check Permissions
Bill	Invoice	Display	Mycart	main menu	Delete items from cart

```
                        ┌─────────────────┐
                        │ Exit from the   │  ───────▶  ●  END
                        │ system          │
                        └─────────────────┘
```
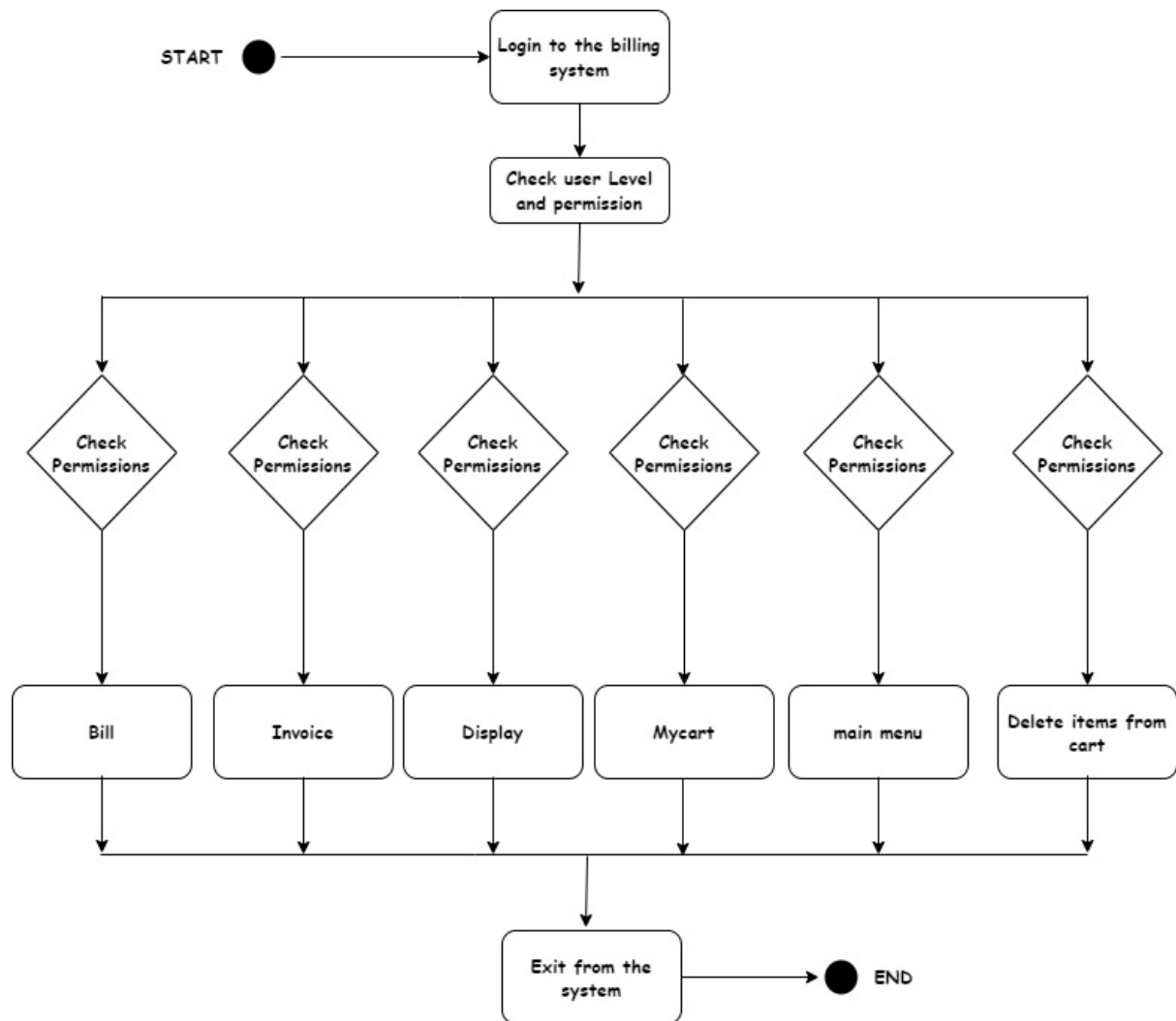
ACTIVITY DIAGRAM OF CUSTOMERS PROFILE IN RETAIL BILLING SYSTEM

BEHAVORIAL DIAGRAM
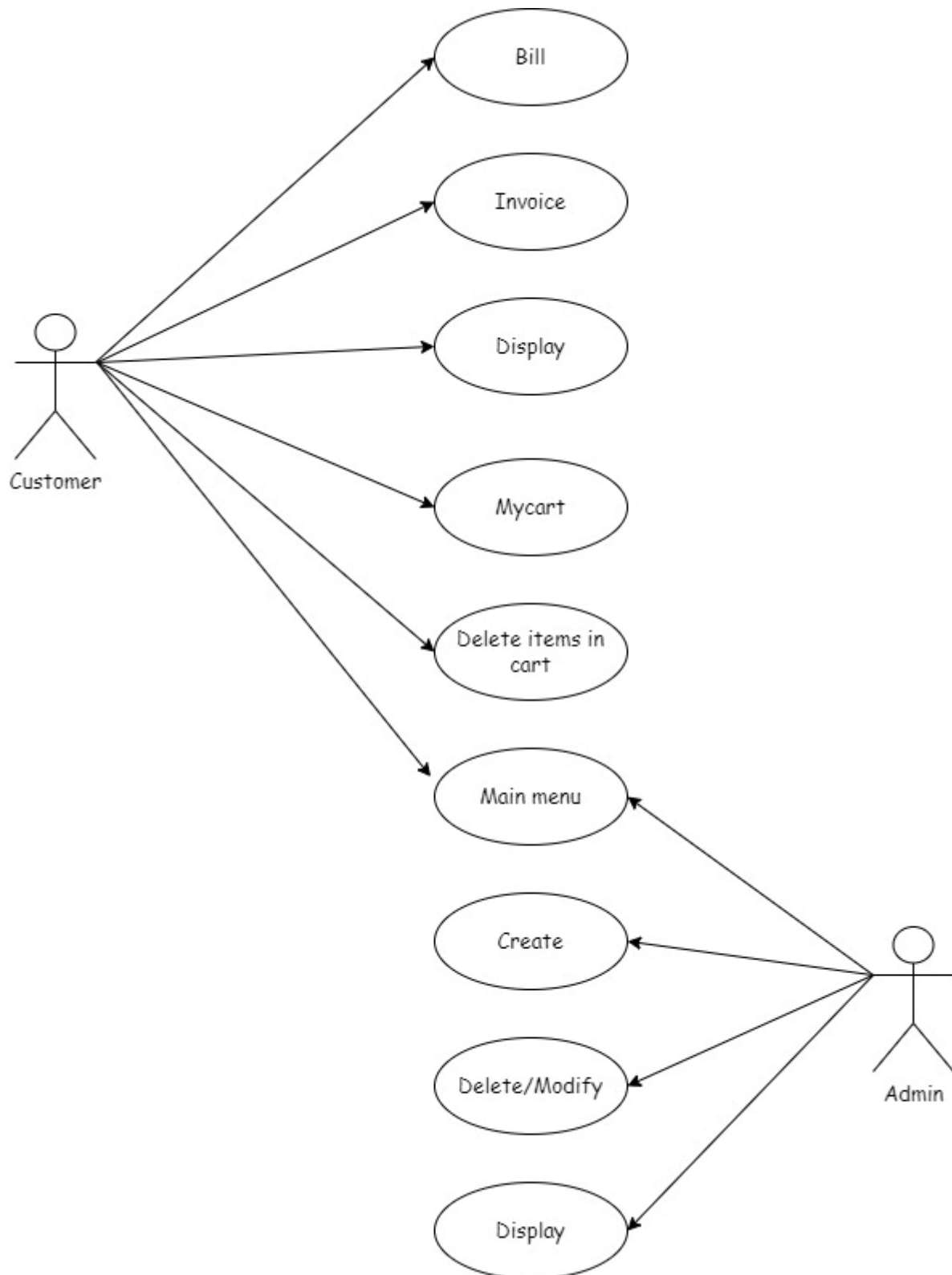
ACTIVITY DIAGRAM OF CUSTOMER AND ADMIN

TEST PLAN & OUTPUT

HIGH LEVEL TEST PLAN:

TEST ID	DESCRIPTION	EXP I/P	EXP O/P	ACTUAL OUTPUT
HL01	Customer	2	Displays customer access	Displays customer access
HL02	Items in Bill	2, 1, 0,2	Displays the output	Displays the output
HL03	Product Invoice	2,2	Displays the output	Displays the output
HL04	Display items in cart	2, 3,	Displays the output	Displays the output
HL05	Main menu	2, 5	Displays the main menu	Displays the main menu

LOW LEVEL TEST PLAN:

TEST ID	DESCRIPTION	EXP I/P	EXP O/P	ACTUAL OUTPUT
HL01	Administrator	1	Displays administrator access	Displays administrator access
HL02	Create item	1, 1, 1, 11, basket, 5, 50	Records are created	Records are created
HL03	Delete item	1, 2, 1	Product has been successfully deleted	Product has been successfully deleted
HL04	Display item	1, 3	Displays the output	Displays the output
HL04	Main menu	1,4	Displays the main menu	Displays the main menu