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|---|---|
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| **Track** | B |
| **Project Title** | Kirana Store Customer Accounts Management E-System<br>(Mini Project) |
| **Organisation** | L&T Technology Services |

# Contents:

# PROBLEM STATEMENT

There are a number of Kirana Stores around us from which we buy groceries every day. With increasing customers the owners are finding it very difficult to manage the accounts of their customers manually in a book which is not a robust method.

Drawbacks of manual customer accounts management system :

1. Lost Customer Account records
2. Logging & Searching time
3. Maintenance of Accounts manually

So, to overcome these drawbacks, there is a need to automate this process of account management of customers in all the Kirana stores.

# PROPOSED SYSTEM

The planned system will enable the Kirana store owners to defeat the inconveniences faced during the account management of their customers. The new arrangement is dependable because it is a well-programmed automated program. The system program needs a C software program.

However, in this method, there is a requirement for the storage space of details of the customers. There will be no more time wasted by searching the customer names in a physical book. This program will also allow the user to add details, search details, display details and delete details of customers. This new program also will give the shop owners a standard because of the computerised means of operation it uses.

This system will also allow people to maintain their accounts in a more convenient way and they will be satisfied with the system since people nowadays don't want to spend much of their time in every aspect of duty. Also, the shop owners will find it easy to manage people in an easier way which will make their work accurate and diligent.

This will suit the need of most customers since the system has been computerised and it is a new and modern system that can be implemented even in remote areas.

# REQUIREMENTS

The System Requirements for implementing this are as follows :

### Hardware Requirements Specification

- **Processor** : Intel Pentium III or later
- **Main Memory(RAM)** : 256 MB
- **Cache Memory** : 512 KB

### Software Requirements Specification

- **Language** : C
- **Execution** : CodeBlocks Application

## DESIGN & ARCHITECTURE

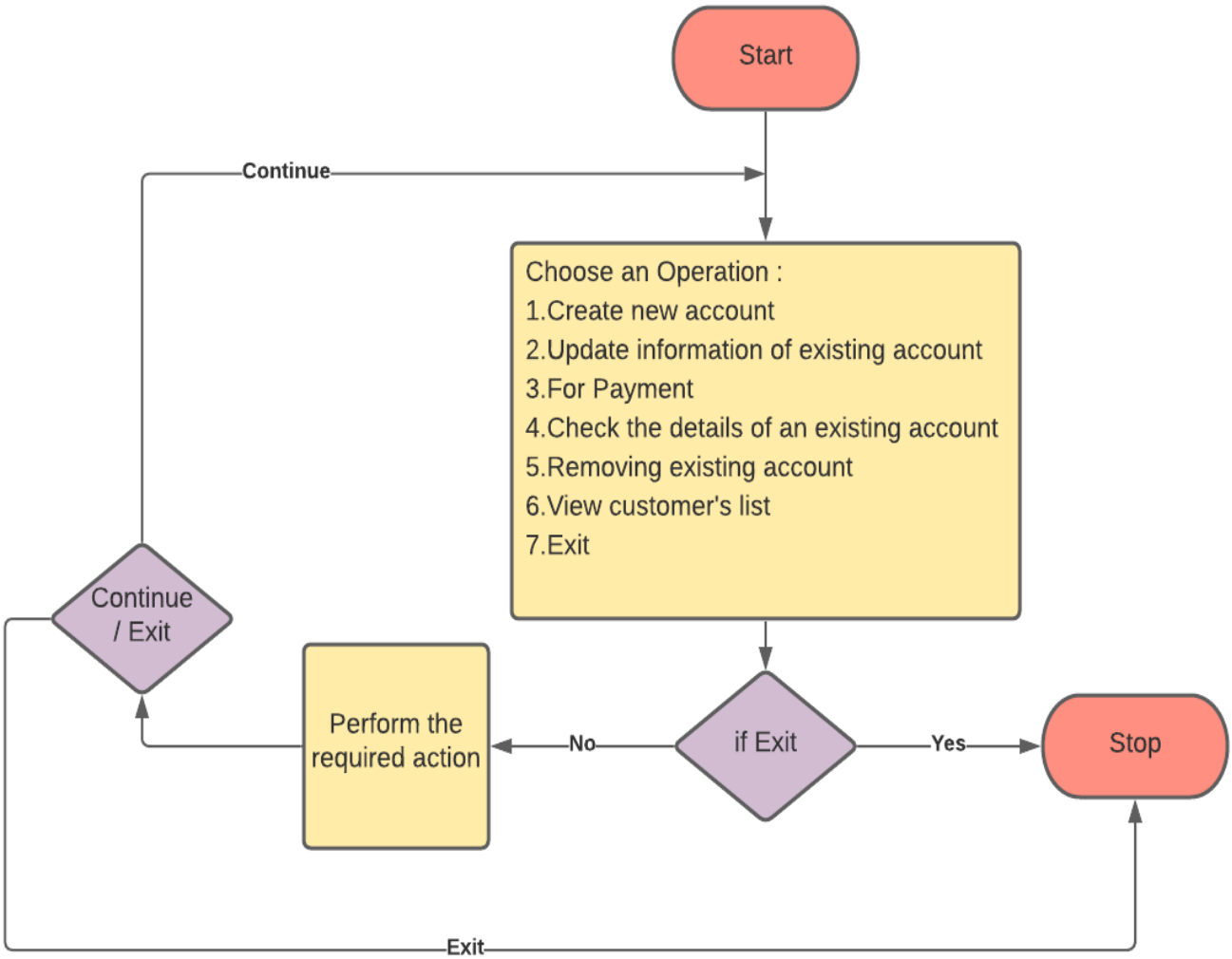


**Fig** : System Flowchart

## DESCRIPTION & TEST PLAN

| Functions | Description |
|---|---|
| **new_acc()** | Creates a new customer account |
| **update()** | Updates the details of an existing customer |
| **display()** | Displays the customer's details |
| **payment()** | Updates the amount based on the credits or debits |
| **customers()** | Displays all the customers |
| **delete_acc()** | Deleted the customer's account |

**Table:** Description of all the functions to be designed.

| Variable | Description |
|---|---|
| **name** | Stores the Name of customers |
| **acc_no** | Stores the number assigned to the customers |
| **phone** | Stores the Contact number of the customers |
| **amt** | Stores the amount to be paid by the customers |
| **age** | Stores the age of customers |

**Table:** Description of Customer details.

## Test Plan

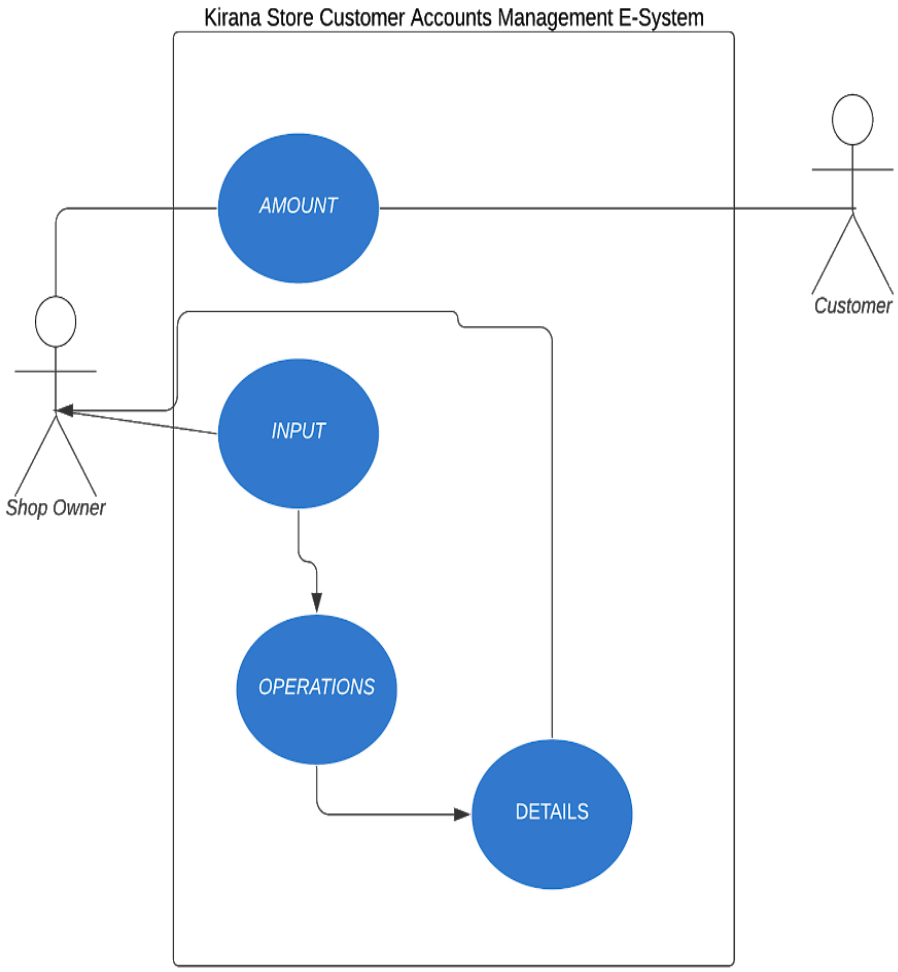


**Fig** : Use Case

## TEST CASES & RESULT

| S.No | Test Case | Expected Input | Expected Result |
|---|---|---|---|
| 1 | Verifying the selection of any option which is displayed | Input the serial number of any option displayed | Correct operation is performed as per the function design |
| 2 | Verifying by giving any option beyond the scope of the displayed options | Input the serial number of any option not displayed | Throws an error |
| 3 | Verifying by giving the customer details with wrong data types | Input name to ‘age’ variable | Throws an error |
| 4 | Verify the customer details | display() | Respective inputs are stored in the respective variable allotted |
| 5 | Verify payments and displaying | payment()<br>Perform credits or debits | All the changes made are calculated & should reflect in the customer’s account |
| 6 | Verify by searching accounts which are not added | Input any name | Throws an error |
| 7 | Verifying by giving redundant customer numbers | Input any integer to customer number which is already present | Throws an error |
| 8 | Verifying by deleting a particular customer account | delete()<br>Select name or customer number | The respective customer’s account is deleted from records |

# CONCLUSION

After the completion of all the above-mentioned phases, thus the system is implemented into a real-life scenario and is maintained for performance issues or bugs if any.