A

Synopsis on

BAKERY MANAGEMENT SYSTEM

For Second Year Mini Project

By

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under the guidance of

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1. INTRODUCTION

A bakery management system is a software solution designed to help bakery owners and managers streamline their operations, increase efficiency, and maximize profitability. The application allows bakery staff to manage inventory, place orders, and generate reports. The bakery staff can place orders for new products, update the inventory, and view the list of available products.
Inventory management allows the bakery to keep track of its ingredients, supplies, and finished products. This feature helps to ensure that the bakery always has the necessary ingredients and supplies to produce its products, as well as avoiding excess inventory that can lead to waste and increased costs. The system generates reports such as the total number of products sold, the total revenue generated, and the list of most popular products.

Overall, a bakery management system can help a bakery to improve its operations, increase efficiency, and maximize profitability.

2. AN OVERVIEW OF EXISTING SYSTEM AND CHALLENGES IDENTIFIED:

In current time, bakeries are using manual system to keep all their records. It is tedious and has a lot of paperwork, it is not much accurate, and ambiguity exist in the manual system. Number of registers must be maintained; calculations should be done manually. Stock must be checked often.

The current system is hence very time consuming and costly as it involves lot of paperwork.
In the manual bakery system, it's hard to maintain price fluctuations also its difficult to maintain paperwork for salaries for paid customers. In manual based system it's difficult to keep track of your inventory. This can lead to missed order deadlines, wasted ingredients, excess spending, unhappy customer and the list go on.

Challenges identified –

1) Time Consumption - As the records are to be manually maintained it consumes a lot of time.
2) Paperwork - lot of paperwork is involved as the records are maintained in the files and registers.
3) Storage Requirements - as files and register are used the storage space requirement is increased.
4) Less Reliable - use of papers for storing valuable data information is not at all reliable.
5) Accuracy - as system is manual there are lot of chances of human errors. These causes errors in calculating mechanism or maintaining products and supplier data in registers.
6) Price Fluctuations - it's very difficult to maintain information about price fluctuations.

3. PROBLEM STATEMENT

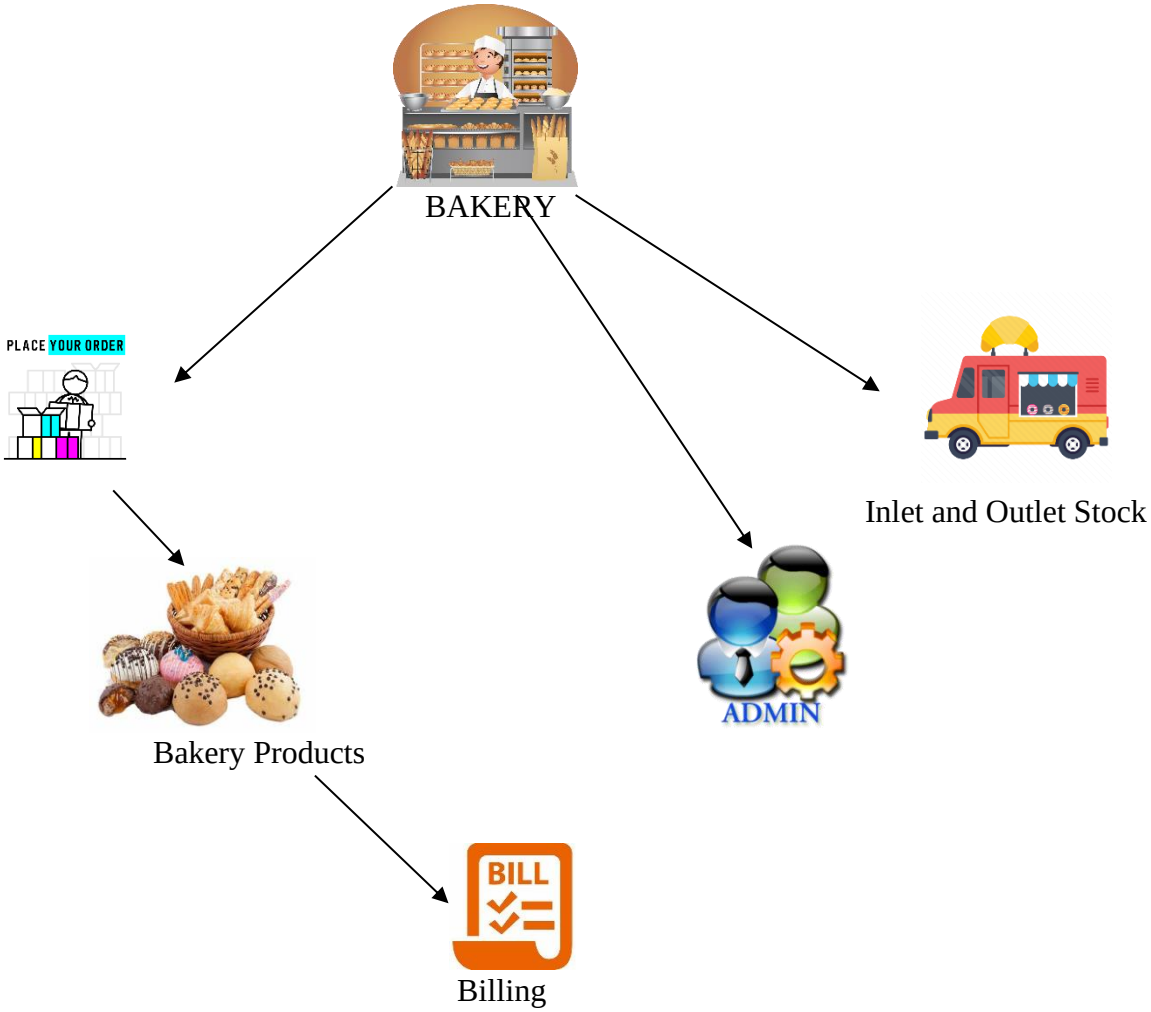
As we know manual system are quite slow, time consuming and less efficient and inaccurate in comparison to the computerized system and, old system is of using paperwork so the old system also dangerous for environment. So, we decided to do the system with paperless work in more efficient way using computer software.

Some advantages of new computerized system:

1] No Wastage of Time.
2] More Accurate.
3] Paperless.
4] User Friendly for Nature.
5] Easy to keep old records.

4. OUTLINE OF THE PROPOSED WORK

4.1.System Architecture Diagram



4.2 List of Modules

i. Admin Panel.
   - Total Cash
   - Credit/Debit card details
   - Instant Item List
   - Back up

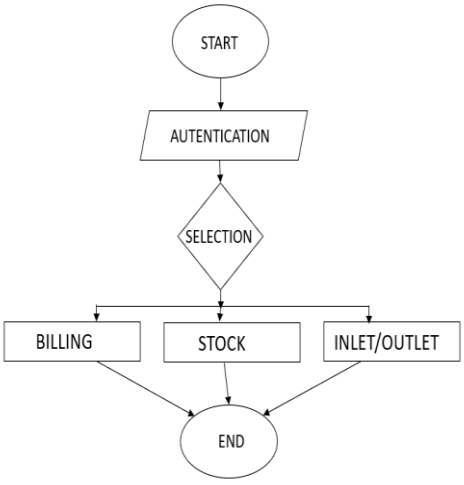
ii. Billing Panel.
iii. Stock Panel.
iv. Inlet and outlet Panel.
v. Feedback Panel.

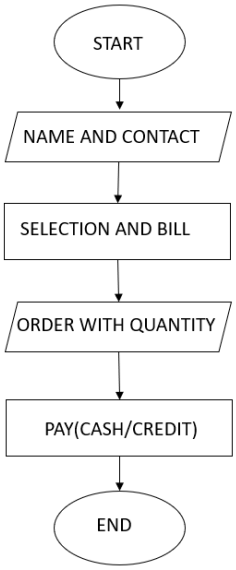
5. REQUIREMENT ANALYSIS

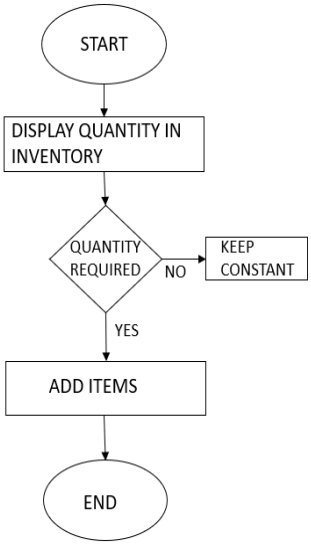
Hardware Used:
PROCESSOR – Intel® Core™ i3-4010U
RAM - 1 GB
External Memory – 256gb.

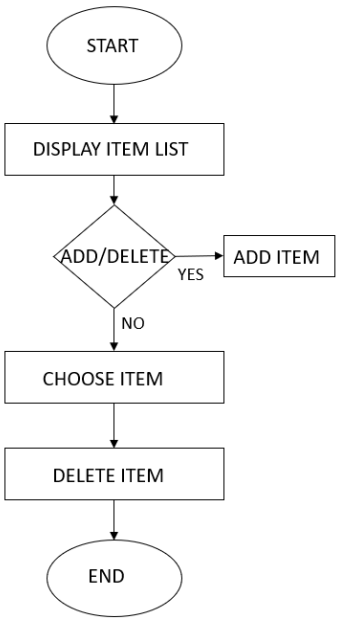
Software Used:
OPERATING SYSTEM – Windows 7
LANGUAGES – C and C++
IDE's – Visual Studio, Dev C++

6. FLOWCHART









7. USAGE OF THE LOGIC AND ALGORITHM

This entire program is based on the C++ programming language with the concepts of OOP's and basic Data Structures. We are also using file handling operations to save data in form of text files.
Due to using file handling operations we can create a small database which will store name, contact number of customers, etc. which makes owner more effective to keep all records.

Logic:

- The bakery system will have an inventory of bakery items.
- Customers can add items to their cart and checkout.
- The inventory will be updated after each checkout.

8. REFERENCES

1] Object Oriented Programming in C++ - GeeksforGeeks
2] C++ File and Stream - javatpoint
3] www.google.com

9. EXPECTED SCHEDULE:

PERIOD	WORK TO BE COMPLETED
2nd February	
9th February	
16th February	
23rd February	
2nd March	
9th March	
16th March	
23rd March	
30th March	
6th April	
13th April	
20th April	

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Name of the Guide Mrs. S. M. Mulla

PROJECT GUIDE **H.O.D - CSE**

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