

“BLOG WEBSITE USING FLASK PYTHON”

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DYP
SALOKHENAGAR

2021-2022

CERTIFICATE

*This is to certified that, following are the students of class SE,
Data science and Engineering, has satisfactorily completed mini project work
as per the syllabus of **Shivaji University**, Kolhapur, In the subject of **PYTHON**
PROGRAMMING within the given span as per the rules.*

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PROJECT GUIDE

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2021-2022

ACKNOWLEDGMENT

I would like to express my special thanks of gratitude to my guide **Prof. XYZ (Internal guide)** as well as my **external guide Dr. XYZ** and our **principal Dr . S. D. Mane** who gave us the golden opportunity to do this research oriented project, which also helped me in doing a lot of research as well as study and We came to know about so many new things related to **BLOG WEBSITE USING FLASK PYTHON**. I am really thankful to my friends who helped me throughout to complete this project. Secondly I would also like to thank my parents who helped me a lot in finalizing this project within the limited time frame.

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Abstract

This software project is a traditional supermarket billing system with some added functionality. This system is built for fast data processing and bill generation for supermarket customers. The billing system consists of a File Handling and effective front end designed in C++. The billing is a vast collection of product name, price and other product specific data. A product when billed is searched from the file handled and its price is added to the bill based upon the product quantity. The system also contains discounts on various products so that the product is offered at discounted price while billing. The supermarket billing system is built to help supermarkets calculate and display bills and serve the customer in a faster and efficient manner. This software project consists of an effective to help the employee in easy bill calculation and providing an efficient customer service.

DECLARATION BY STUDENT

I hereby declare that the Project work entitled **Blog Website using Flask Python** completed and written by me has not previously formed the basis for the award of any Degree or Diploma or other similar title of this or any other University or examining body.

Date:

Place:

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1.Introduction

Supermarket billing system is the system to automate the process of ordering and billing of a supermarket store. Supermarket is the place where customers come to purchase their daily using products and pay for that. So there is a need to calculate how many products are sold and to generate the bill for the customer. This system is built for fast data processing and bill generation for supermarket customers. It also allows the customer to purchase and pay for the items purchased. The users will consume less time in calculation and the sales activity will be completed within a fraction of seconds whereas in a manual system will make the user to write it down which is a long procedure and it also consumes a lot of time. Because of this software, paper work will be reduced and the user can spend more time on monitoring the supermarket. The project will be user friendly and easy to use. This project is helpful to computerize the bill report and generating the items details. The billing data is a vast collection of product name, price and other product specific data. A product when billed is searched and its price is added to the bill based upon the product quantity. The system also contains discounts on various products so that the product is offered at discounted price while billing. The supermarket billing system is built to help supermarkets calculate and display bills and serve the customer in a faster and efficient manner. This software project consists of an effective and easy GUI to help the employees in easy bill calculation and providing an efficient customer service. With the continuous development and improvement of computer technology, communication technology, network technology, scale database technology, the commercial supermarket has become a developing technology worldwide.

1.1 State of Art

1.2 Overview

This billing system in supermarkets is a straightforward console programme written in C++ with no visuals. This project will teach you how to utilise the stream class and how to handle files in the C++ programming language.

This project has two classes, class amount and class item, with class amount inheriting from class item. There are only a few features, the project is quite straightforward to comprehend. To understanding the source code will provide you an idea of how to operate with files, for example add , remove, update, and search data or information inside and outside of them.

1.3 Problem Statement

In today's fast paced society, it's very hard to be competitive without using cutting-edge technology available in market. After years of business, the data has grown much. It is becoming a challenge for person to manage that data in an effective way. To be more productive in order processing, he needs a solution which can facilitate their current processes with use of technology and software. With increased amount of orders, it is becoming difficult for salesperson to manage orders in effective and efficient manner. It is very hard to go through all paper work and backtracking orders. If there is any complain or review of any order, it takes large amount of effort and time to backtrack and fix the problem. This results in loss of resources, increased time, and low output.

Drawbacks of Manual System (Current System):

- Time consuming: Getting the required information from the available data takes a lot of time. Changing, editing and updating the information contained in several files are a slow and time consuming process.
- Poor communication: A manual system requires employees and managers to write down each time an item is removed from the inventory. If one employee forgets to mention that the last coffee product has been removed from the inventory the admin or manager expects the item to still be available for a customer during sale.
- Need of Effort: In manual system, an item's record is maintained in separate files

so it takes much effort to collect data from several Storesfor and if we want to change or delete the data of any transaction then it has to be changed or deleted from all the files and places it stored.

Needs Large Space: In manual work done data item has to be stored at several places, similarly student's record is maintained in separate registers. It requires more storage space

2 Literature Review

Super market billing system improved many times according to requirement of seller and customers .It describes same work that is calculating the bill , gives it to the customers and maintain proper database . They are accurate in calculation and printing they also generate records.

The concept is also added in the billing system is that they also maintain relationship with the customer who purchase more product from store regularly. System also concerns their requirements and gives them discount. It shows the product details also.

3 Basic System Architecture

The Super Market Billing System is the project which place where customers come to purchase their daily products and pay for that. So there is a need to calculate how many products are sold and to generate the bill for the customer.

To make software fast in processing ,with good user interface so that user can change it and it should be used for long time without error and maintenance.

3.1 Outline of the system

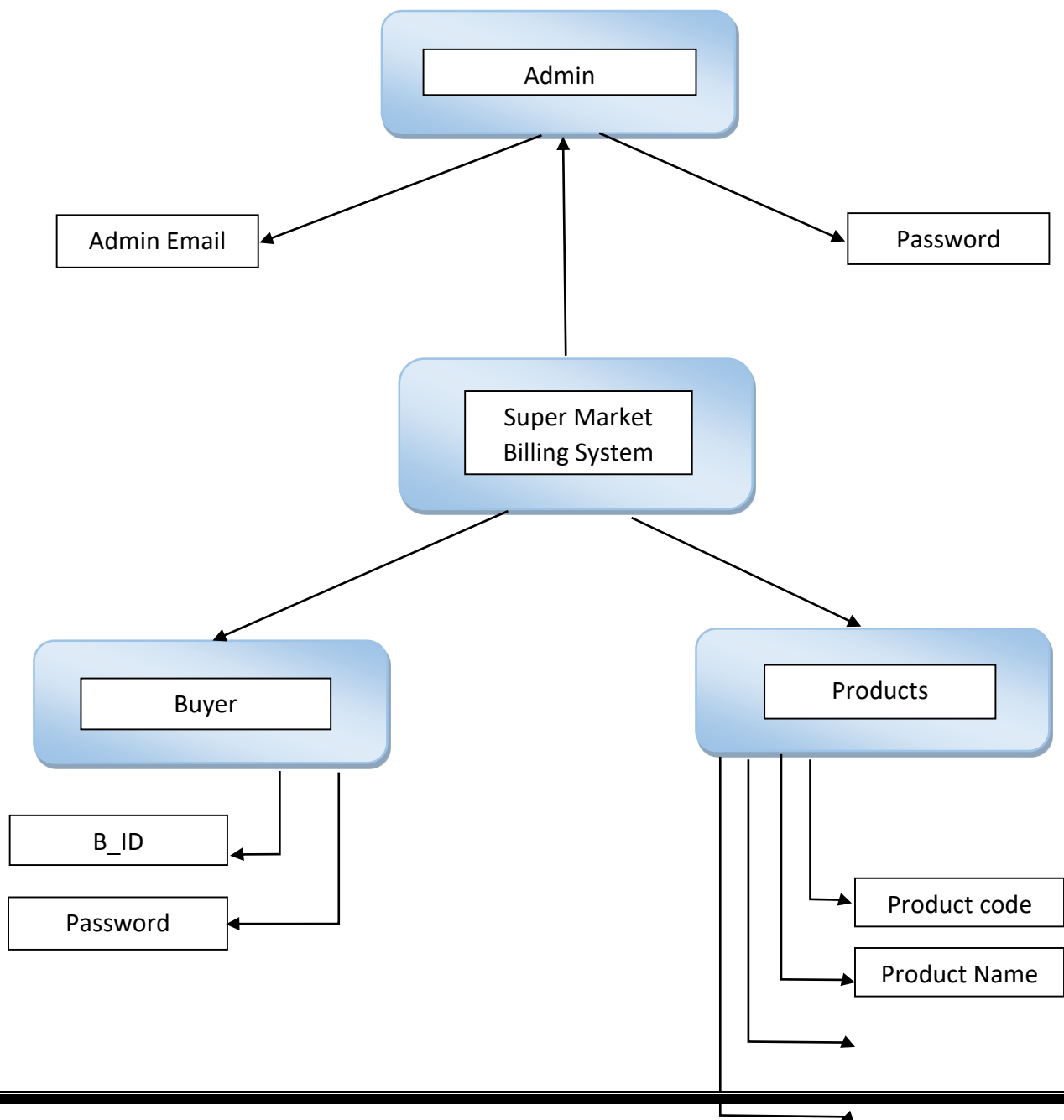
3.1.1 Components of the System

The system is classified mainly into three sections or components, which are as follows –

- **Bill Report:** It displays a bill report for all products entered into the supermarket billing system.

- **Add, Remove, or Edit Item Details:** You may use this feature to add, remove, or edit item details. You may enter information or data such as item number, item name, production date, price, quantity, tax percent, and more in the add items section.
- **Details of the object to be displayed:** While adding an item, this feature allows users to see the products and the data associated with them.

3.2 Proposed System Block Diagram



Product Price

Discount

4. Development

4.1 Methodology

- 1) We collected the Information About the given micro-project topic.
- 2) We distributed the given work related to the micro-project to all the team members.
- 3) We discussed about flow of the program in considering the algorithm as were as the flowchart.
- 4) We executed program in a Visual Studio Code software properly.
- 5) We have successfully run the program using the C++.
- 6) We had printout the print of the micro-project.
- 7) We submitted the project to concerned teacher by taking signature on the report of the Micro-project.

4.2 Software Requirement details

Operating System : Windows7

Front-end : Dev C++

Languages Used : C++

4.3 Hardware requirement details

Processor : Intel Core i7 Processor

RAM : 8GB(Minimum)

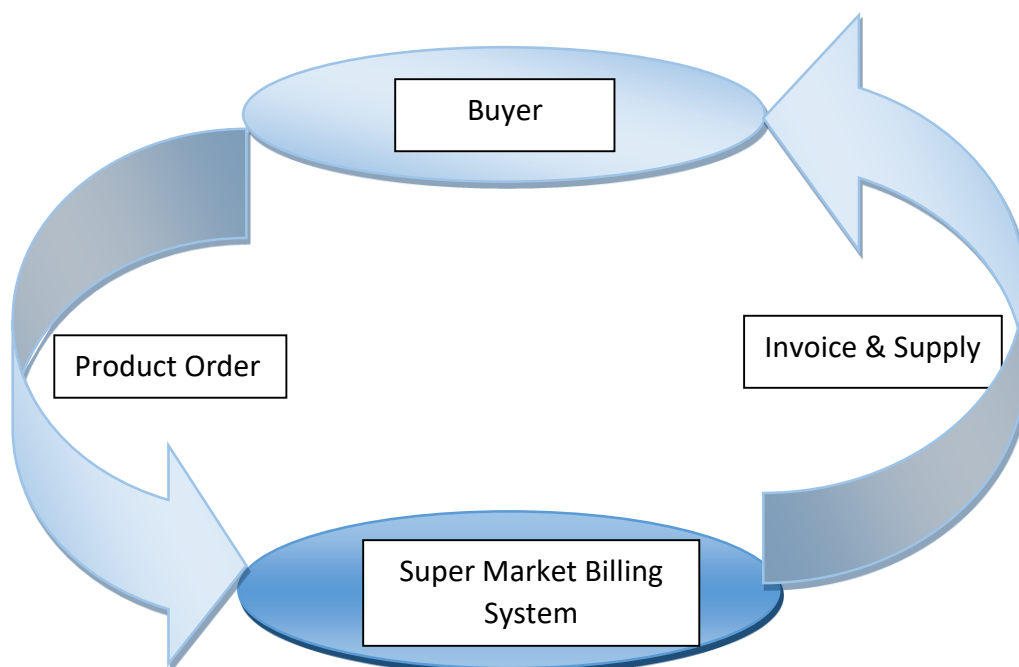
HDD : 40GB(Minimum)

4.4 Data Flow Diagram

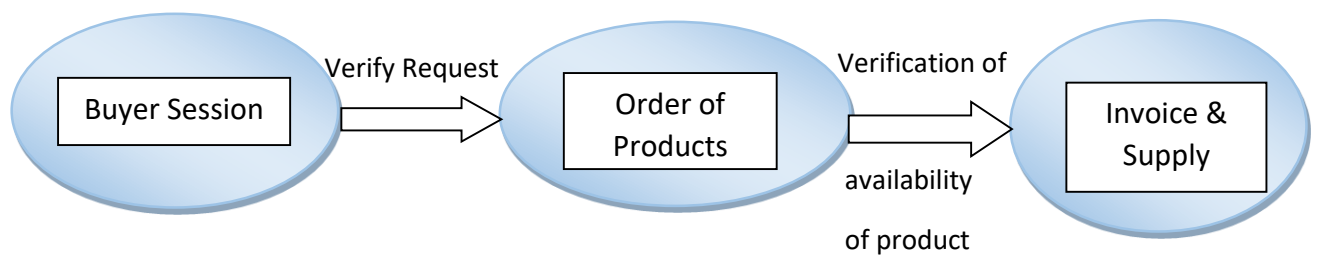
Also known as DFD, Data flow diagrams are used to graphically represent the flow of data in a business information system. DFD describes the processes that are involved in a system to transfer data from the input to the file storage and reports generation.

Data flow diagrams can be divided into logical and physical. The logical data flow diagram describes flow of data through a system to perform certain functionality of a business. The physical data flow diagram describes the implementation of the logical data flow

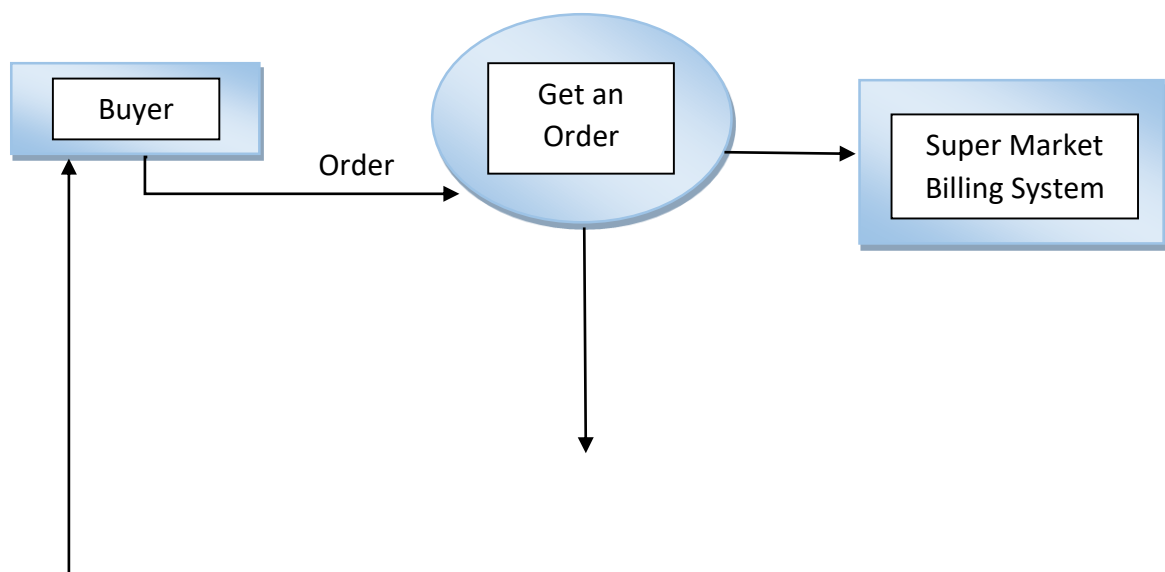
- **Data Flow Diagram**
- **Level 0 DFD**



- **Data Flow Diagram**
- **Level 1 DFD**



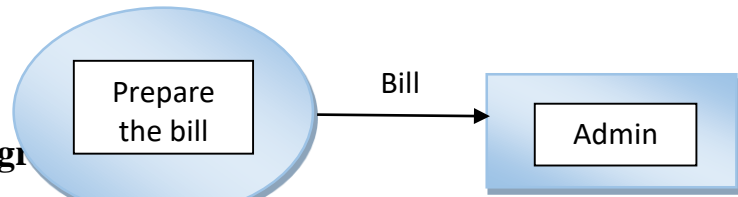
- **Data Flow Diagram**
- **Level 2 DFD**



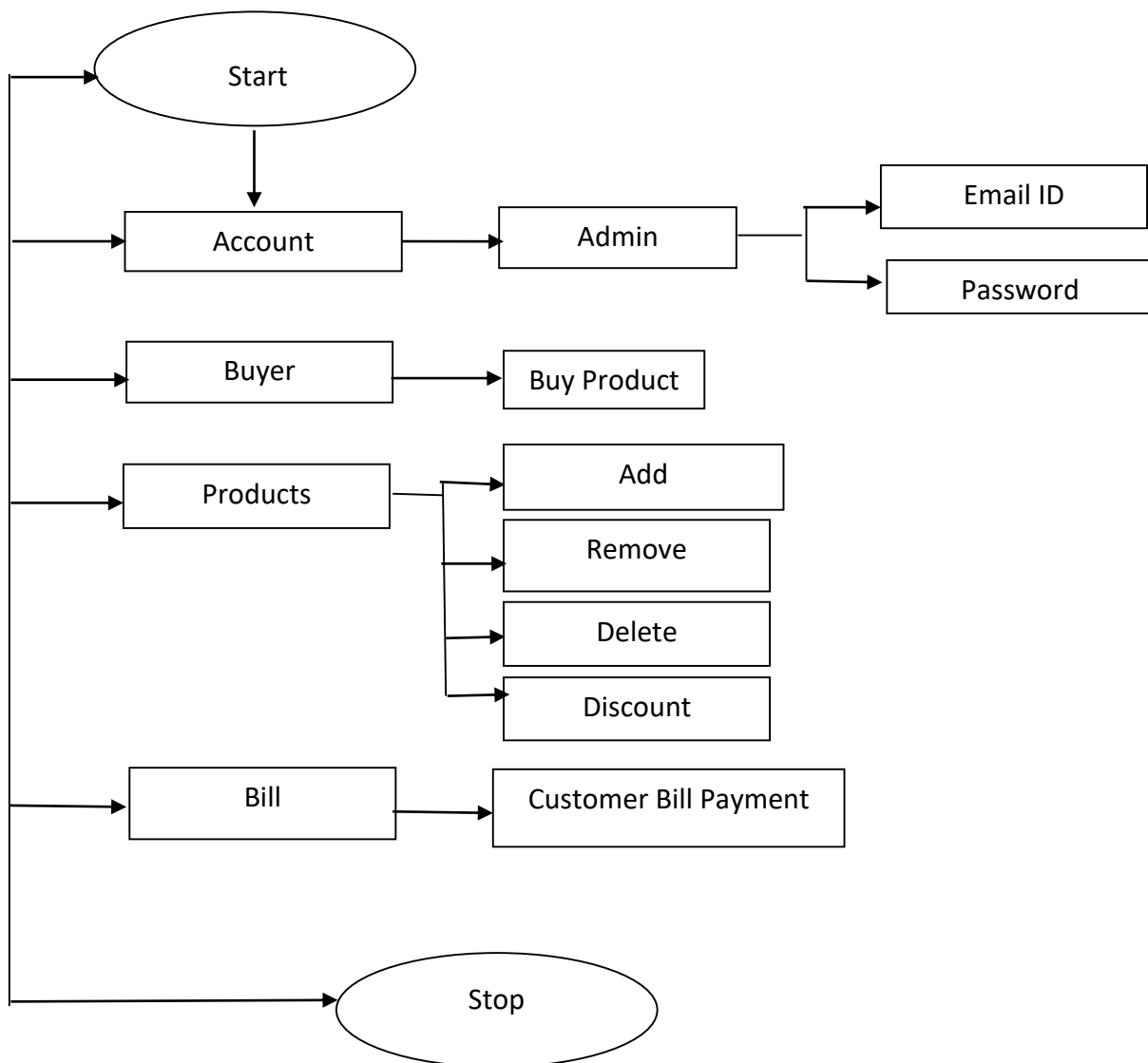
4.5 Activity

Diagram

Receipt



An activity diagram is a **behavioural diagram** i.e. it depicts the behaviour of a system. An activity diagram portrays the control flow from a start point to a finish point showing the various decision paths that exist while the activity is being executed.



4.6 Project flow Diagram

5. Experiment and Results

6. Conclusion and Future Works

6.1 Conclusion

This software has been developed designed to reduce the time taken to handle the sales activity. It is designed to replace an existing manual record system for reducing time taken for calculations and for storing data. This system has been developed with oops concepts. The system is strong to handle daily operations where the database is cleared over certain time. This system will reduce manual work, calculations and will also provide periodic reports any time.

6.2 Future Works

Future Scope of this project is to investigate and design a software solution which can facilitate both customer and salesperson in performing their daily tasks, improving efficiency, and helping them to be more productive. This project will provide a solution through which salesperson can easily manage, handle and generate all required information in their respective format when needed. It provides quick way of operation by capturing the manual process and automating them. It will help them to manage the bill details, financial data, and historical data and also in producing documents of different formats for different customers. This solution will help salesperson in reducing effort spend on managing many bills. It will also provide them opportunity to explore possibility of generating documents, managing financial details. This system will help the salesperson to manage in fast billing. It will help to maintain the data of the purchased items. It also gives bill to the customers. It will set the

rates of taxes and commission on products. The project will enable to see the report regarding product and category in a fixed period of time. It can also change the Graphical User interface of the system.

7. Bibliography

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