### Project Title:

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| Billing System |  |
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### Statement about the problem:

In today’s fast-paced society, it’s very hard to be competitive without using cutting-edge technology available in the market. After years of business, the data has grown much. It is becoming a challenge for a person to manage that data effectively.

To be more productive in order processing, he needs a solution that can facilitate their current processes with the use of technology and software. With the increased number of orders, it is becoming difficult for a salesperson to manage orders effectively and efficiently.

It is very hard to go through all the paperwork and backtracking orders. If there is any complaint or review of any order, it takes a large amount of effort and time to backtrack and fix the problem.

This results in loss of resources, increased time, and low output.

### Why is the billing system chosen?

Billing System can be very useful within a business environment. Instead of doing manual work for making up a bill at grocery shops, which gets tiring and time-consuming, you can generate a bill including tax in just a few clicks. When making up a bill manually at a grocery shop may contain some human errors like adding wrong items to the bill or summing up their total also may end up wrong, it also sometimes results in a Bad Impression to the customer. Ideally, the users should be able to generate bills without any mistakes and quickly, enabling them to fasten or improve their process. To overcome this problem, we have come up with this project, that is, Billing System.

### Objective and scope of the project:

The billing system is the system to automate the process of billing a store. The grocery store is the place where customers come to purchase their daily using products. So, there is a need to calculate how many products are sold, GST and discounts to generate the bill for the customer.

This system is built for fast data processing and bill generation for customers. The users will consume less time in calculation and the sales activity will be completed within a fraction of seconds whereas a manual system will make the user write it down which is a long procedure and it also consumes a lot of time. Because of this software, paperwork will be reduced. The project will be user-friendly and easy to use. This project is helpful to computerize the bill report and then generate the bill.

A product when billed is selected by entering its quantity 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 billing system is built to help grocery stores calculate and display bills and serve the customer in a faster and more efficient manner. This software project consists of an effective and easy GUI to help the employees with easy bill calculation and provide efficient customer service.

***Salient features of billing system:***

* Paperwork reduction.
* Calculate Products Price.
* Calculate Tax on Behalf of Product Category.
* Search Bill Records.
* All Validations no duplicated record insert.
* Compliance with GST.
* Instant invoices.
* prevent errors in the compilation of bills and invoices.
* Maintain a record of all bills and invoices.

**Methodology:**

### Hardware & Software to be used:

The software and the hardware are used for developing the project and implementing the project are:

**A. Software Requirements:**

1. Python 3,9
2. Notepad
3. Any OS

**B. Hardware Requirements:**

1. 2 GB RAM or above

2. Intel i3 Processor or above

3. 32 Bit System or above

### What contribution would the project make:

The Billing System Using Python is very useful to small businesses or restaurants or cafes or food truck owners. This helps the owner to fasten the process which is bug-free and easy to use. It also has a calculator to ease the use of the user. This project firstly has the menu and then adds up the selected items by customer and sums up the total of all items adds tax and service charges and displays the total. To perform any other operation like division, multiplication, etc. calculator is also the grocery industry is enlarging rapidly and owners are keen to improve every section of their business. Though much attention is paid to digitalizing the management and the menu, not many business owners realize the importance of applying digital billing software in grocery shops. It upgrades the billing process and uplifts the customers' experience. It enables customers to pay bills more easily.

The software can generate detailed bills that eliminate the need to calculate bills separately when the guests wish to know the total GST amount. Apart from billing, the software enables you to organize several processes at the grocery shops. It makes your system more effective and helps you provide faster and easy services to the customers. So many times, customers leave unhappy due to improper billing. When the crowd is vast in the grocery shops, it might take you some time to generate manual bills that may leave your customers unsatisfied. This is where the automated billing system can be used. It generates digital bills automatically and allows customers to make quick payments.

### The schedule of the project

### (Gantt chart/ PERT chart):

**References/Bibliography:**

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