

# Generate bill and save data

## Introduction:

- Generate bill and save data will work that is calculating the bill, gives it to the customer and maintain proper database, are accurate in calculation and printing the bill what is the CGST and SGST, How much amount should customer pay and also generate records, we can add n number of customers and n number of items in these software.
- We can save all the invoices and we can see specific customers invoice by searching there names.

## High Level Requirements

- collect relevant information from the customer.
- Store huge n number of customer data.
- We can search there name and display customer data.
- Add new customers

## Low Level Requirements

- Make Shure the information is correct.
- Need to add correct data.
- Display greetings after the billing completed.

## What

- System generate bills for Hotels, Restaurants, etc., The way which would bring the transparency between shop owners and customers , which saves time, which gives proper calculations and invoice.

## Why

- To get automate online bills. It can be used in any departmental store, shops, cafes and any vendor shops for billing to the customers.

# When

- Time is not a barrier, so we can use anytime and anywhere.

# Who

- People who have General stores, Hotels, Restaurants etc., can utilize this application to save time of writing bills by using pen and paper.

# How

- Many features are available to use. Invoice will be generated by entering customer name, Items, Quantity, and price.

## SWOT ANALYSIS :

### \* Strength:

1. Save lot of time and effort.
2. Reduces material costing that comes with manual billing and filing.
3. Reducing long queues.
4. Low cost and easy to Handle.

### \* Weakness:

1. Network difficulties
2. Lack of personal information.
3. External printing.

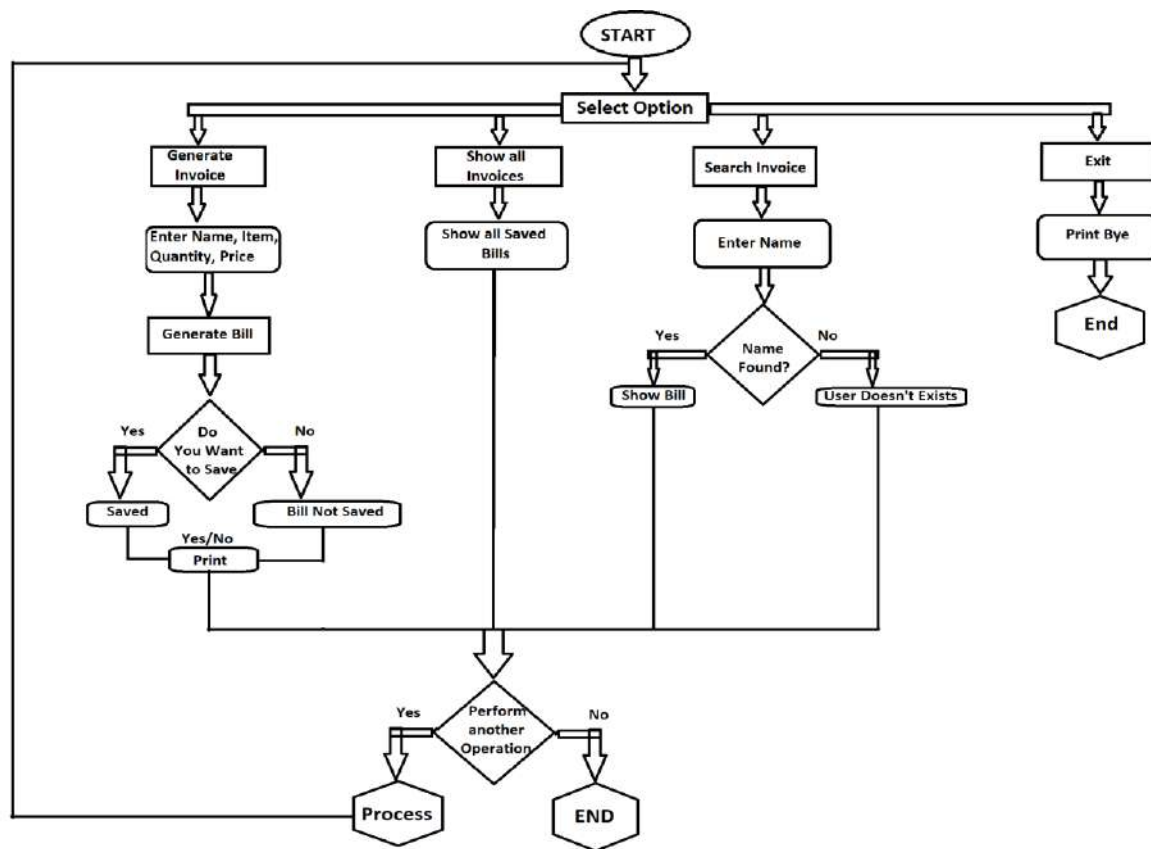
### \* Opportunities:

1. Growing business.
2. Increase flexibility.
3. Quick receiving and information transferring.

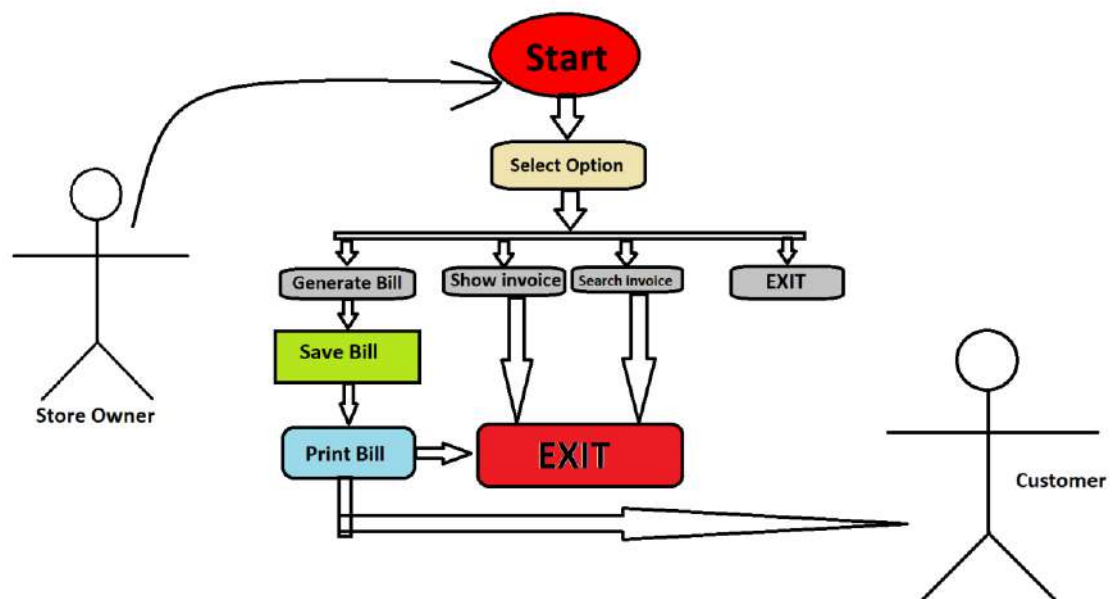
### \* Threats:

1. Misuse.

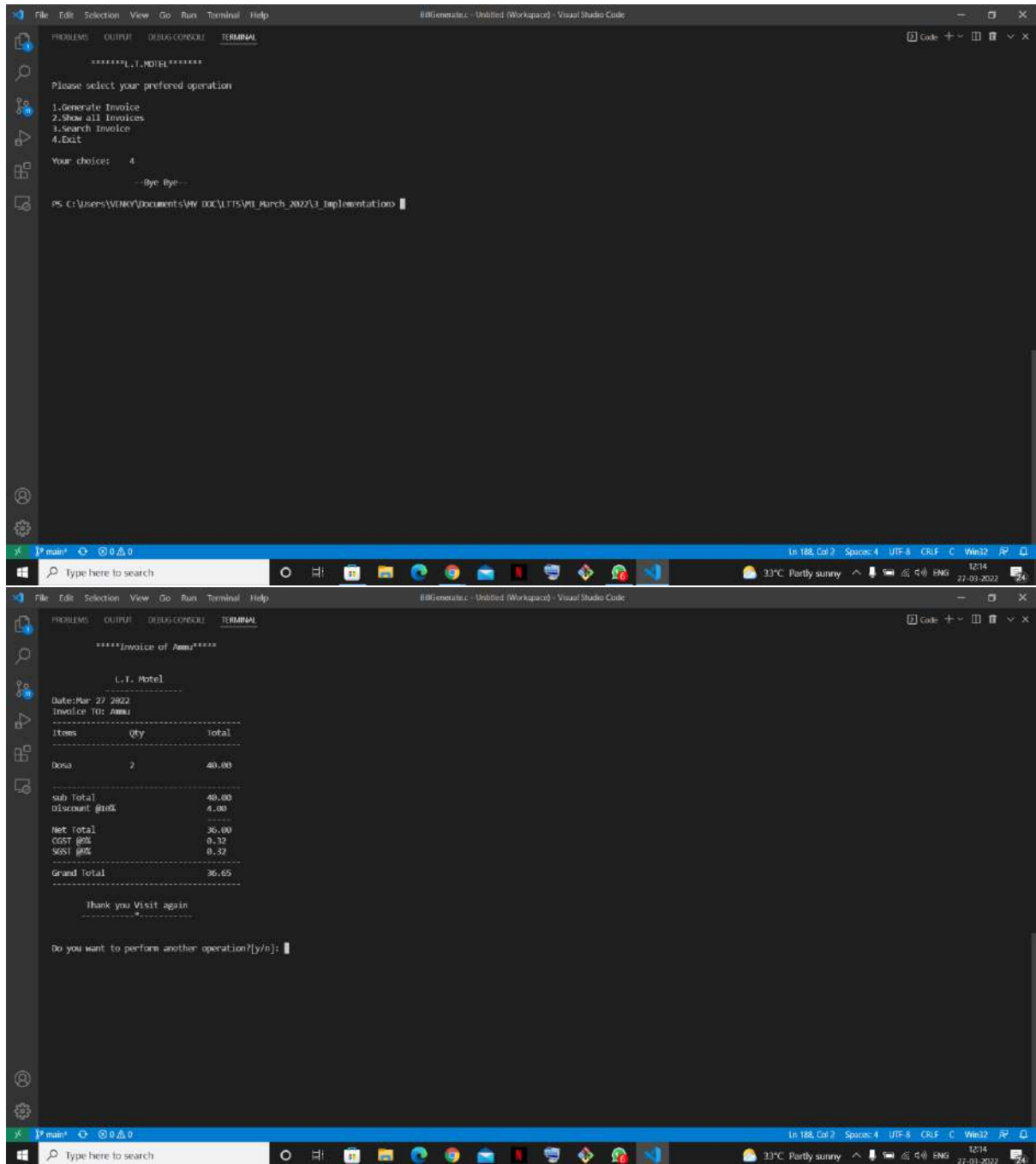
## Flowchart :



## Behavioural Diagram :



# Outputs :



```
*****L.T.HOTEL*****  
Please select your preferred operation  
1.Generate Invoice  
2.Show all Invoices  
3.Search Invoice  
4.Exit  
Your choice: 4  
--Bye Bye--  
PS C:\Users\VENKY\Documents\WV\DOC\UTTS\VP1_March_2022\3_Implementation>
```

```
*****Invoice of Anna*****  
  
L.T. Hotel  
-----  
Date:Mar 27 2022  
Invoice TO: Anna  
-----  
Items      Qty      Total  
-----  
Dosa       2         40.00  
-----  
Sub Total          40.00  
Discount @10%      4.00  
-----  
Net Total          36.00  
Cost @8%           0.32  
Sgst @8%           0.32  
-----  
Grand Total        36.65  
-----  
Thank you Visit again  
-----  
Do you want to perform another operation?[y/n]:
```

```
File Edit Selection View Go Run Terminal Help
#0Generate.c - Untitled (Workspace) - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
*****L.T.Motel*****

Please select your preferred operation
1.Generate Invoice
2.Show all Invoices
3.Search Invoice
4.Exit

Your choice: 3
Enter the name of the customer: Anna

L.T. Motel
-----
Date:Mar 27 2022
Invoice TO: Mr.venky
-----
Items Qty Total
-----
cold coffee 2 160.00
ice cream 1 50.00
-----
sub Total 210.00
Discount @10% 21.00
-----
net total 189.00
COST @8% 1.70
SGST @5% 1.70
-----
Grand total 192.40

thank you visit again
-----

L.T. Motel
-----
Date:Mar 27 2022
Invoice TO: Anna
-----
Items Qty Total
-----
Dosa 2 40.00
-----
sub Total 40.00
Discount @10% 4.00
-----
Net Total 36.00
COST @8% 0.32
SGST @5% 0.32
-----
Grand Total 36.65
```

```
File Edit Selection View Go Run Terminal Help
#BGenerators - Untitled (Workspace) - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Please enter the name of the customer: Mr.venky
Please enter the number of items: 2

Please enter the item 1: cold coffee
Please enter the quantity: 2
Please enter the unit price: 80

Please enter the item 2: ice cream
Please enter the quantity: 1
Please enter the unit price: 50

L.T. Hotel
-----
Date: Mar 27 2022
Invoice ID: Mr.venky
-----
Items Qty Total
-----
cold coffee 2 160.00
ice cream 1 50.00
-----
Sub Total 210.00
Discount 80% 21.00
-----
Net Total 189.00
CGST 8% 1.70
SGST 8% 1.70
-----
Grand Total 192.40
-----

Thank you visit again
-----
Do you want to save the invoice:[y/n]:
```

main\* 0 0 0 0 In 188, Col 2 Spaces: 4 UTF-8 CRLF C Win32 12:11 27-03-2022 33°C Partly sunny ENG

Type here to search

```
File Edit Selection View Go Run Terminal Help
#BGenerators - Untitled (Workspace) - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Please enter the name of the customer: Mr.venky
Please enter the number of items: 2

Please enter the item 1: cold coffee
Please enter the quantity: 2
Please enter the unit price: 80

Please enter the item 2: ice cream
Please enter the quantity: 1
Please enter the unit price: 50
```

main\* 0 0 0 0 In 188, Col 2 Spaces: 4 UTF-8 CRLF C Win32 12:11 27-03-2022 33°C Partly sunny ENG

Type here to search

The image consists of two screenshots of a Visual Studio Code editor window, showing the development and execution of a C program named 'BillGenerator.c'.

**Top Screenshot:** The editor shows the 'BillGenerator.c' file. The code is a menu-driven program that allows users to generate invoices, view all invoices, search for an invoice, or exit. The program prompts the user to select an operation and then asks for their choice. The code is written in C and uses standard library functions like `printf`, `scanf`, `system`, `fopen`, and `fread`.

**Bottom Screenshot:** This screenshot shows the same code, but with the terminal window open. The terminal displays the output of the program, showing the menu and the user's choice. Below the program output, the terminal shows the compilation and execution of the program using the `gcc` compiler. The commands executed are:

```
VENK@DESKTOP-BUGBPS3: ~/Documents/My Doc/LTTS/March_2022/3_Implementation (main)
$ gcc BillGenerator.c -o BillGenerator.1
VENK@DESKTOP-BUGBPS3: ~/Documents/My Doc/LTTS/March_2022/3_Implementation (main)
$ gcc BillGenerator.c -o BillGenerator.out
VENK@DESKTOP-BUGBPS3: ~/Documents/My Doc/LTTS/March_2022/3_Implementation (main)
$ gcc -S BillGenerator.c
VENK@DESKTOP-BUGBPS3: ~/Documents/My Doc/LTTS/March_2022/3_Implementation (main)
$
```

**Submitted by :**

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