BILLING SYSTEM

USING PYTHON

MINI PROJECT -II



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ABSTRACT









ABSTARCT

Billing System using Python is an application software built using python.
 It can be used at all place transaction for computerized billing including supermarkets, Restaurants, Grocery stores, other products sales etc.

• In traditional system of billing, store owners use pen and paper billing which becomes very hard to keep track of the sales, bills etc. The Billing system application automatically creates a copy of the bills for the day in a folder which can be accessed any time for any purpose.











ABSTARCT

It has a list of items to billed that can be customized based on the type
of store or type of items which are sold and need billing and invoicing. It
also has the features to update the quantity of the items added for
billing.







INTRODUCTION









- Bill is a written document that contains the details of the goods sold or services provided to the customer.
- Bill is prepared by the service provider and handed over to the buyer.
- In the olden days, bills were manually prepared by entering all details related to every business service.
- But with the advancement in technology, you can make use of a billing software which will help prepare your bills, speed up the process and improve accuracy as well.











 Essential details in a bill will include the seller and buyer name, address, contact details. The bill number for easy tracking, the product sold or service offered details including the cost, tax details, and the payment instructions.



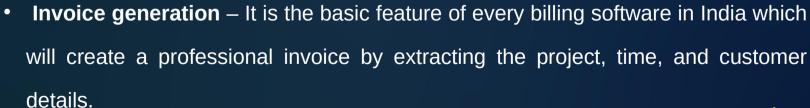






FEATURES

The billing software offers several features that make the life of the business easy.
 You only have to install the software once and you can keep generating bills in the future.













Customer record creation – Some advanced billing software help in summarizing
the customer's details and the purchase information. The smart system will
segregate the details under the name of each customer for easy retrieval and
reference.











BENEFITS OF BILLING SOFTWARE FOR SMALL BUSINESSES

- Cost-Effective
- Intelligent Management System
- Error-Free
- Safe & Secure
- Compliance Adherence
- Minimizes late payments
 - Minimizes missed payments
 - Maintains a professional image
 - Maintain a Professional Image
 - Automation



















LITERATURE SURVEY

Invoicing orders for payments and clients process account payables accordingly. A dedicated system that functions at the back-end is a billing and invoicing software that shortens the invoicing time and proceeds faster











LITERATURE SURVEY

Bills and Receipts Years Back

The handwritten paper invoices were in huge prevalence earlier and they were the only source to keep the documentation of the deal. However, it went challenging to manage and maintain, especially for the organizations engaged in multiple businesses and hundreds of transactions in a day.

McKEESPORT HOSPITAL						
ACCOUNTS PAYABLE WI		N ADV	194 <u>3</u>			
Lounty nine of DOLLARS						
For ROOM WARD /0/	RI	EG. NO. 4	12-5238			
Delivery Room Operating Room	10	00	=			
Anesthetic Laboratory Exam.	5	00				
Drugs Ambulance	1	00				
X-Ray Cardio						
2950						
McKeesport Hospital 19542 Rec'd by QQ B						







LITERATURE SURVEY

E-Invoices

The new age invoices are well-documented and professional-looking e-receipts. They are electronically generated. Hence, the chances of errors are comparatively less. They are easily maintainable and can be stored safely on your computer, laptop or mobile.











LITERATURE SURVEY

Key Features of Billing

- · Creating professional and customized invoices.
- Creating customer records including personal and purchase details of the customers.
- Predefined communication templates for more personalized accounting.
- Currency setting for seamlessly connecting the billing & invoicing system with the rest of the software architecture





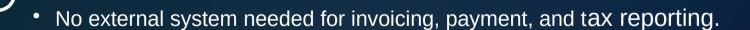




LITERATURE SURVEY

Key Features of Billing

 Import/export customers including sending quotes to them using a centralized database.









REQUIREMENTS















- OS: Windows or Linux
- Python
- Text Editor: Visual Code or Sublime or Notepad etc.



HARDWARE

- Processor: Intel Core i3 and above
- RAM: 2 GB and above
- Monitor: Resolution of 1024 X 768 or higher
- Keyboard and Mouse















Basic Structure

The basic software contains basic structure which houses the name of the restaurant, the buttons and the options that can be used for a particular function. It contains the following:

- \bigcirc
- Title Bar with the name of the Restaurant
- Customer Details section

Customer D	etails —		
Name		Contact	
A			1







Items details Section

Name Quantity Add Item	Remove Item	Price Update Quantity	Clear
	Your O	Prder Rate Quanti	ty Price
Total Price	Bill	Cancel O	rder









• Items list(Menu)

Menu			
Select Type v	Show All		
Name	Price		
#Tea & Coffee			
Tea	40		
Coffee Mocachino	51		
Coffee Americano (Black)	55		
Coffee Espresso	60		
Ice Tea (Lemon)	51		
Coffee Cappuccino	51		
Espresso (Black)	55		
Cold-Coffee (Frappe)	70		
#Beverages			
*Areated Beverages			
Cola / Orange / Lemon	55		
Diet Pepsi	55		
Fresh Lime Soda Sweet / Salt	60		
Mineral Water	55		
Fresh lime Water Sweet / Salt	60		









Print Window

No. 100 New Airport	- 34VASFD2215HI	Bengaluru-562149	9	
Date:- 22 / 5 / 2021 (Saturday) Customer Name:- Sample Bill Customer Contact:- 1234567890	DILL	Tim	e:- 23	3:22:1
DESCRIPTION	RATE	QUANTITY		AMOUN
Coffee Americano (Black)	<mark>55</mark>	1		55
Coffee Espresso	60	1		60
Total price	e : Rs. 115 /-			









IMPLEMENTATION









IMPLEMENTATION

This project is implemented by using python Tkinter Module. The Tkinter Module is a GUI module which helps in creating GUI based programs and applications. Python provides the standard library Tkinter for creating the graphical user interface for desktop based applications.

The whole project is of one single module which consists of different section like the item list, top header with name and text field where name and contact of the buyer has to be entered. On the left hand side it has the Items attributes like ADD button, UPDATE button, DELETE button, Bill button and CLEAR button.









IMPLEMENTATION

This GUI application is build by using Tkinter library of python. We need to first import everything from tkinter library, which gives us the command of from tkinter import \star . The GUI application view is created by using the code top=Tk(). The button then are created using the button command newbutton =

```
Button(parent, text = "Green", fg = "red").

from tkinter import *
from tkinter import ttk
import tkinter.messagebox as tmsg
```









IMPLEMENTATION

The list of items to be invoiced or billed are given using text to the program. We create a separate Folder in the parent folder of the program. The folder contains various text documents named after the section of item it contains, these document are named and maintained as per the section of items it contains so that it is easy for our search module to get a particular set of items

lame	Date modified	Type	Size
1 Tea & Coffee.txt	24-05-2020 03:53	Text Document	1 KB
2 Beverages.txt	24-05-2020 03:53	Text Document	1 KB
3 Fast Food.txt	24-05-2020 03:53	Text Document	2 KB
4 Starters.txt	24-05-2020 03:53	Text Document	1 KB
5 Main Course.txt	24-05-2020 03:53	Text Document	2 KB
6 Dessert.txt	24-05-2020 03:53	Text Document	1 KB





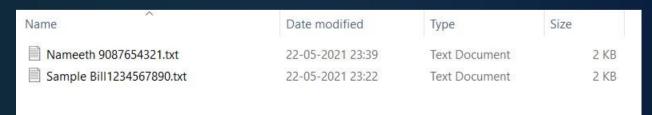
Section of items that can be billed





The program also is made to store the printed bills in a folder with sub-folder of the date of the transaction, all the transactions done for a day will be auto saved in the folder.

This helps the store owners in reviewing the bills if they need to do it, or any other means of review. The bills are saved with the name of the customer along with the contact number of them.







Auto saved bill folder



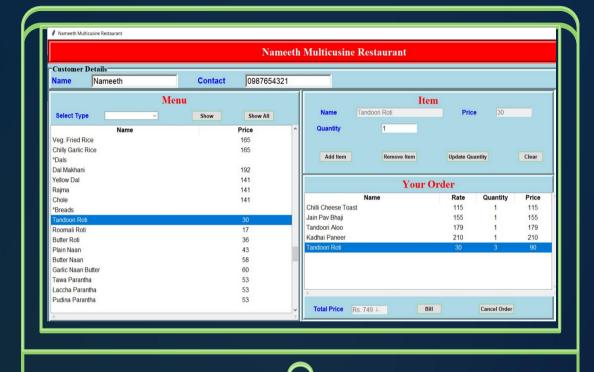


RESULTS

















RESULTS

OUTPUT:





Empty Interface





RESULTS

OUTPUT:





Interface with billing details







OUTPUT:

RESULTS

■ Bill ■		>
Nameeth Multicusine	e Restaurant	
No. 100 New Airport Road, Char	galatti, Bengaluru-562149	
GST NO:- 34VASFD	2215HKAAA	
BILL		
Date:- 22 / 5 / 2021 (Saturday)	Time:- 23 : 39	: 13

Date:- 22 / 5 / 2021 (Saturday) Customer Name:- Nameeth

Customer Contact: - 9087654321

RATE	QUANTITY	AMOUNT
115	1	115
155	1	155
179	1	179
210	1	210
30	3	90
s. 749 /-		
	115 155 179 210	115 1 155 1 179 1 210 1 30 3









CONCLUSION









CONCLUSION

In this project we created a GUI based application software that is used for billing using python. This helps in eliminating all the cons in manual billing and helps the store owners by making it automate. It also helps them by keep track of their sales, buyers information etc. It saves time for the store owner by making things computerized, he no more needs to spend time manually writing bills, keeping a





backup of it etc.







CONCLUSION

FUTURE ENHANCEMENTS

Future enhancements of this project could be:

- Adding Inventory module with optional mode which can used for super market
- Making UX interface better
 - Feature where bills are also send to the whatsApp of customer number
 - Feature of auto GST for big business











