

Madhav Institute of Technology and Science Gwalior-474005

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

DEPARTMENT OF CSE and IT



A Minor Project Report

On

Billing Application

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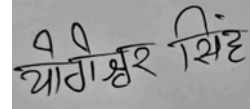
Sahdev rai

CERTIFICATE

Certified that the work contained in the project titled
“**BILLING APPLICATION**”, by Kuldeep jadon and Sahdev
Rai has been carried out under my supervision and that this
work has not been submitted elsewhere for a degree.



(Prof. Vikas Sejwar)
Mentor



(Prof. YOGESHWAR SINGH)
Mentor

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INTRODUCTION

BILLING APPLICATION is aimed at developing an application for billing purposes. This application is basically a GUI developed by using Python Tkinter which takes quantity of each item purchased by consumer and various taxes imposed on each type of item and generates Overall bill of the customer.

NEED OF APPLICATION

This application is designed for fulfilling the requirement of a shopkeeper by rapidly , continuously and efficiently generating a bill of a customer .

OBJECTIVE

Making a billing application for a shopkeeper.

PROBLEM IDENTIFICATION

A shopkeeper faces problems in generating a bill on paper for many customers. This application will help shopkeepers to quickly and accurately generate a bill for many customers and it will also get saved in the system for future reference. It will play a great role in smooth functioning of the shop which will benefit the shopkeeper to handle its customers properly.

HARDWARE AND SOFTWARE REQUIREMENT

HARDWARE

- System : Multimedia PC
- Processor : Windows 8 or above

- Memory : 512MB RAM

- Hard Disk : 80GB or above

- Keyboard : 104 standards

- Monitor : SVGA

SOFTWARE

- Python Tkinter module
- Visual studio code as IDE.

METHODOLOGIES

What is Python?

Python is a popular programming language. It was created by Guido van Rossum, and released in 1991.

It is used for:

- web development (server-side),
- software development,
- mathematics,
- system scripting.

GUI

A graphics-based operating system interface that uses icons, menus and a mouse (to click on the icon or pull down the menus) to manage interaction with the system.

Tkinter

Python offers multiple options for developing GUI (Graphical User Interface). Out of all the GUI methods, tkinter is the most commonly used method.

Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.

File handling in python

Python too supports file handling and allows users to handle files i.e., to read and write files, along with many other file handling options, to operate on files.

Output

This application is named InvoiceBooks. It works as follows:

The screenshot shows the 'InvoiceBooks' application window for 'BigM Super Market'. The interface is divided into several sections:

- Customer details:** Fields for 'Customer name', 'Phone No.', and 'Invoice no.' with a 'search' button.
- Product Selection:** Three columns of product categories with quantity input fields (all set to 0):
 - Cosmetics:** Bath soap, Face cream, Face wash, Hair spray, Hair gel, Moisturizer.
 - Cold drink:** Pepsi, Fanta, Frooti, Thumbs up, Limca, Sprite.
 - Grocery:** Rice, Food oil, Pulse, Wheat, Sugar, Tea.
- Invoice area:** A text area showing 'BigM Super Market', 'Invoice no : 7020', and 'Customer name :'. Below it is a table header: 'Products QTY price'.
- Invoice menu:** Fields for 'total cosmetic price', 'total grocery price', 'total cold drink price', 'cosmetic tax', 'grocery tax', and 'cold drink tax'. Action buttons include 'Total', 'Generate Bill', 'Clear', and 'Exit'.

On opening Application

When we open this app, we will first see the above screen.

InvoiceBooks

BigM Super Market

Customer details

Customer name Phone No. Invoice no.

Cosmetics	Cold drink	Grocery
Bath soap <input type="text" value="1"/>	Pepsi <input type="text" value="2"/>	Rice <input type="text" value="0"/>
Face cream <input type="text" value="1"/>	Fanta <input type="text" value="0"/>	
Face wash <input type="text" value="0"/>	Frooti <input type="text" value="3"/>	
Hair spray <input type="text" value="0"/>	Thumbs up <input type="text" value="0"/>	
Hair gel <input type="text" value="0"/>	Limca <input type="text" value="2"/>	Sugar <input type="text" value="0"/>
Moisturizer <input type="text" value="0"/>	Sprite <input type="text" value="0"/>	Tea <input type="text" value="0"/>

Invoice area

BigM Super Market
 Invoice no : 7020
 Customer name : sahdev
 Phone no : 9876567898

Products	QTY	price
Food oil	1	210
Wheat	3	600
Bath Soap	1	70
Face cream	1	90
Pepsi	2	100
Frooti	3	90
Limca	2	100

Cosmetic Tax		Rs. 8.0
Grocery Tax		Rs. 81.0
Cold Drink Tax		Rs. 14.5
Total :		Rs. 1363.5

Invoice menu

total cosmetic price	<input type="text" value="Rs. 160.0"/>	cosmetic tax	<input type="text" value="Rs. 8.0"/>
total grocery price	<input type="text" value="Rs. 810.0"/>	grocery tax	<input type="text" value="Rs. 81.0"/>
total cold drink price	<input type="text" value="Rs. 290.0"/>	cold drink tax	<input type="text" value="Rs. 14.5"/>

Saving the invoice

The Invoice of the customer will be saved into a file with the help of file handling. The Invoice is saved in the same folder in which the application is located inside the folder "memo". The Application and "memo" must remain in the same folder or the invoice will not be saved.

Searching the invoice of a customer:

If we want to print the invoice of a previously saved customer, we can search his details just by searching his bill no. The customer's details will be printed inside the bill area.

Clear and Exit:

If we want to print an invoice of another customer, we can clear the details of the previous customer by clicking the "Clear" button. On clicking the exit button, the application will be closed.

Description of the application:

This application is a GUI which has all the list of items in the shop. Users just have to enter customer details and the quantity of each item purchased. This application will automatically do total including all the taxes imposed on each item by clicking on total button and will also Generate bill by clicking on the generate bill button. It also gives the option to save the bill or not. By clicking on the save button, the bill will get automatically saved in the system by making use of file handling for future reference. This application also has a search option to find previous bills. It is also done using Python file handling. It also contains a clear and Exit option.

Advantages:

1. Quick calculation.
2. Faster billing and payments.
3. Easily manage your business operations.
4. Save your valuable time and cost.
5. Reduces paperwork.
6. Ease in creating reports.