

# Course Based Learning

(Via Projects)

Project is Based on the Language **Python**

**“RESTAURANT BILLING SYSTEM”**

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## **ABSTRACT**

This project is aimed at developing a Restaurant Billing System. The purpose of the project is to develop a user-friendly GUI based billing system. The application can be accessed and effectively used by the user.

The billing system contains the menu which is available in the restaurant. The owner or the cashier has to check the item ordered by the customer and enter the number of orders given for a particular item in the menu. Once the items are selected, the cashier can automatically get the total and the receipt will be generated.

A simple GUI is provided for the easy access. The system's design is so simple that users won't find it difficult to use and understand.

## INTRODUCTION

Python is known for its general-purpose nature that makes it applicable in almost each domain of the software development. Python as a whole can be used in any sphere of development.

The project has been implemented in python. The system contains the menu which is available in the restaurant. The owner or the cashier has to check the item ordered by the customer and enter the number of orders given for a particular item in the menu. Once the items are selected, the cashier can click on total to obtain the total for drinks and the food separately. It displays the service charges and the tax also. When the cashier clicks on the receipt button, the receipt is generated.

### 1.1 Motivation:

Motivation for this project in many a time in the restaurant the proper information about the amount of tax, service charges will not be mentioned in the bill. So, the billing system is been implemented for the easier access of the system as well as the detailed charges in the bill.

### 1.2 Existing System:

The existing system issues a bill with the details of the food and its cost. It also contains the total charges on the food items inclusive of the tax, service charges etc.

### 1.3 Limitations of the Existing System:

There are many problems which are faced in current billing systems.

- Proper charges on each item will not be given.
- No details on taxes or service charges will be mentioned.
- Some restaurants issue the hand written bills with no detail of the charges mentioned.

### 1.4 Proposed System:

The proposed system is user friendly and gives all the details that is required in the bill such as details about the taxes and the service charges.

## **SYSTEM REQUIREMENTS**

### **2.1 Software Requirements**

Operating System: Windows 10

Tools : Python idle

### **2.2 Hardware Requirements**

Processor : Any Processor above 500 MHz

RAM : 8GB

Hard Disk : 1TB

Input device : 104 Keys standard keyboard

Output device : Laptop Display Screen

## **PROPOSED METHEDOLOGY**

The proposed system imports tkinter, random, time and datetime for the implementation of the system.

The frames are created for the title, menu (beverages & food) and the receipt. These frames have several suitable buttons and checkboxes. Title contains the title of the project. The menu contains the details of the items available in the restaurant. Receipt contains the bill which will be generated.

The manager, cashier or the owner will first check the box of the ordered items and mention the number of orders of each item in the menu. The manager then clicks on total button to get the total, subtotal, tax, service charges etc. Then will click on the receipt button to get the automatically generated bill. To place the next order, reset option can be clicked to clear the text fields.

## REFERENCES

1. Python for Everybody, Charles R. Severance
2. [www.python.org](http://www.python.org)
3. [www.geeksforgeeks.org](http://www.geeksforgeeks.org)
4. [www.w3schools.com](http://www.w3schools.com)