Restaurant Billing System

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ABSTRACT
A billing system can be very useful within a business environment. Instead of making bills manually or to sum up the total manually, it is very much time consuming and also may have some human errors like adding up the wrong total or adding wrong items into the bill. All restaurants mostly use hard paper printed menu card. Printed menu cards are subjected to damage and creates issues when updating of menu card is required such as adding or deleting the menu items or updating the price. The proposed work is to avoid the manual error and printing of paper or hard menu cards. The e-menu and e- bill improves aesthetics of restaurant table and also minimize the manual system for taking order and also updating the menu is easy that too without involving any cost.

Key Words: billing system, python, busines environment, faster, quickly, useful…

I.   INTRODUCTION:

Restaurant Billing System Using Python can be very useful within a business environment. Instead of doing manual work for making up a bill at Restaurant, which gets tiring and time consuming, you can generate a bill including tax and service charges in just few clicks. When making up a bill manually at a Restaurant may contain some human errors like adding wrong items into the bill or summing up their total also may end up wrong, it also sometimes results into a Bad Impression towards the Restaurant from a Customer. Ideally, user should be able to generate bill 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, Restaurant Billing System Using Python.

The Restaurant Billing System Using Python is very useful to small business or restaurant or cafe 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 total.

II.   LITERATURE REVIEW

The main objective of this software is a computerized working environment. This system is made on the assumption that the organization is fully requires manual work for any task. This project will serve the following objectives:
• To add and maintain records of available menu.
• To add and maintain description of new menu.
• To provide view of transaction to the owner.
• To provide a convenient solution of billing pattern.
• To make an easy to use environment for users.
• Easy to use system.

Proposed methodology and discussion
Restaurant Billing System is developed using Python. While using this billing management system, you can easily calculate total bill of the customer. Moreover, the total bill is calculated including service charges and state tax. All you need to do is just fill up the blank boxes with item quantities and click on total button. The program will display your total bill. This system can be used in restaurants, cafe and food truck for calculating bills in a short period of time and it's not time consuming.

It's easy to operate and understand by users. There is no any error and warning contents in the project. The design is so simple that user won't find it difficult to use and navigate. To ease the use of the user we even have a calculator added to our system which performs all basic operations like Addition, Subtraction, Division and Multiplication. We'll display Menu, Order no., Total and Reset. We assure that the project is bug free and easy to use. Since the program is for restaurant or providing services. It will add services charges and state taxes respectively.

III.   CONCLUSION AND FUTURE SCOPE

The documentation includes all necessary information on the structure and the coding of the program created for Restaurant Billing system. Creating the program was an overwhelming task

that required a lot of analyzing, research work and personal skills.

Creating this report has been a great experience and numerous facts have been learned since the required tasks were very challenging. Tasks such as creating a system to a restaurant, needed research work as well as personal skills. Creating proper design and smooth flow of operation was a very tiring task that consumed a lot of time. The program has been created successfully with proper design and working flow of operation.

The billing part was the most important and difficult part of this project. Retrieving data from database for the billing purpose was quite a tough task. Making changes on multiple data base using SQL queries was also a bit time consuming and though provoking task.

In conclusion, many experiences have been gained specially in coding. Time management and teamwork is very important in the development system.

The software has a lot of features and advantages over the paper based billing system. It has the following scopes:

Scope

• This project will help the employee in fast billing.

• Quality and faster service can be given to the customers.

• Easy to maintain in future prospect.

• This project enable employees to maintain a great database of information regarding the billing and reservation.

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