# Restaurant Billing Software

## Team:

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# Introduction

In this bill the customer chooses random items within the menu and adds the quantity of items as per their requirement, the restaurant calculates the bill with addition of taxes. Once the final calculation is done, the bill will be generated.

# Overview

Project based on "Billing Software" which only uses Python language with libraries.

It has features that will allow all the users to interact with customers regarding their food item billing. This system as well as the Python applications concepts which are used in our real-time scenario and well implemented by the end users.

# Goals

- Restaurant menu card with Dine-In / Takeaway option
- Bill generation with the chosen menu.

# Specifications

- Invoice Receipt
- Item
- Item price
- GST
- Quantity

# Problem approach:

## I. Basic information:

Now we are thinking to create a billing slip from a Restaurant

## II. Functionalities of the program:

For developing this software we need some of the functionalities of the restaurant

i) Customer name

ii) Items list

iii) Item values

iv ) Total cost of the items

v) The bill should be generated along with time

 vi) Restaurant name

## III.   Implementation

To implement the methods related to their functionalities

## IV.   Verification

After completion of the implementation we should check with some test cases and run it

## V.   Run & fixing the errors

Then run the software if there is any implementation required then we need to fix it

## VI.   Finally release

Now it is ready to launch the program

# Milestones

## I.   Issues with GitLab

- Accessing the GitLab is complicated to the beginner level programmers
- If the programmer is not familiar with usage of GitLab the merge conflicts will occur, it will affect the total program to be in danger.

## II.   Bill Generation Problem

- Bill alignment had made a lot of trouble for us
- Calculate the bill had also made us bit confused in analyzing the price and calculating

### III.  Alignment of documented string

- Alignment for documented string is also a difficult task. This is the main content to appear in the output for the end-user.

### IV.  Accessing values from dictionary

- Assigning the values for the dictionary using the previously created documented string with  items codes

## Knowledge:

### I.  OOPs Concept:

- Created one class: given some global variables
- Three methods are defined

### II.  Dictionary

- It is created based on the menu codes and prices
- Codes are considered as keys
- Prices are considered as Values
- It is used to access the keys and values based on customer requirement

### III.  Documented string

- It is the multiline string
- It is having our menu list with codes

### IV.  Control statements

- We used control statements if and else for this project

### V.  For loop

- It is used for choosing number of items customer want to purchase/ have the food

### VI.  Vast usage of Print statement

- Print statement is vastly used in our program to take input for the customer and to exhibit the output

## Statistics

- Number of Lines of code     :107
- Number of class             1
- Number of methods           3
- Number of special function  4

## Demo / Screenshots

### Output for documented string

```
-------------------------------------------------------------------------------------------------------
                             Veg & Non_veg : Items--->Price_list For One Plate
-------------------------------------------------------------------------------------------------------

---------------------------------------------------------------------------------------------------------
      Soups                |       Starters            |      Main Course            |   Rotis& Breads        |   Drinks

creamymushroomsoup(Cr)= 60 |Chilli Paneer(CP)     = 200 | Paneer Biryani(PB)      = 220 | Roti(R)        = 30 | Cola(Co)       = 40
VegSweetCorn(VSC)     = 60 |chicken_drum_sticks(CDS) = 250 | Mushroom Biryani(MB)    = 200 | Rumali Roti(RR) = 40 | Thumbsup(Th)    = 40
Tomato Soup(TS)       = 50 |chicken_kebab(CK)     = 120 | Chicken DumBiryani(CDB) = 120 | Butter roti(BR) = 50 | sprit(S)        = 40
MushRoom Soup(MS)     = 70 |chilli_chicken(CC)    = 180 | ChickenFrypieceBiryani(CF) = 120 | Butter Naan(BN) = 40 | VirginMojito(VM)= 70
Manchow Soup(MCS)     = 80 |Dragon_chicken(DC)    = 200 | Boneless chickenBiryani(BC)= 200 | Naan(N)        = 40 | Blue carco(BC)  = 70
Creamy soup(CS)       = 60 |chicken_65(C65)       = 120 | Mutton kheema Biryani(MKB) = 250 | Kulcha(k)      = 50 | WaterBottle(WB) = 20
Mutton_bonesoup(MBs)  = 90 |chicken_lollypop(CL)  = 150 | Mutton Biryani(MuB)     = 300 | ButterKulcha(BK)= 50 |
Chickencornsoup(CSC)  = 90 |chicken555(CT5)       = 200 | Fish Biryani(FB)        = 250 | Aloo kulcha(AK) = 50 |
Hot'n'sour soup(HS)   = 90 |chicken_majestics(CMa) = 230 | Prawn Biryani(PRB)      = 250 | Chapathi(C)    = 30 |
ChickenManchowsoup(CM)= 90 |chiken_tandoori(CT)   = 200 | MLA Biryani(MLA)        = 300 | Pulka(P)       = 20 |
---------------------------------------------------------------------------------------------------------
```

### Bill Output

```
-------------------------------------------------------------------------------------------------------
                                      PSP Restaurant
                           VISAKHAPATNAM - MADDILAPALEM BRANCH
                                 Ph-No - 9550019755
-------------------------------------------------------------------------------------------------------
                                        DineInn
-------------------------------------------------------------------------------------------------------
    S.No                   Items                 Quantity                      Total Price
     1                      CT                       2                            400
     2                      CM                       2                            180
     3                      CO                       2                            80
     4                      WB                       1                            20
     5                      FB                       3                            750
-------------------------------------------------------------------------------------------------------
                              No.of items = 10              Total_price 1430
                                                            GST = 257.4
=======================================================================================================
         PRADEEP Please pay this amount ---> 1687.4 /- Rupees only
=======================================================================================================
                                        Thank You
                                    Please Visit Again
```