**Restaurant Management System**

INTRODUCTION:-

A restaurant management system is the complete collection of technology, restaurant software and marketing modules that you will need to manage your business. It takes over the operations and marketing of your business. We will be breaking down all the units that comprise a successful restaurant stack and drill down very deep into it to provide you a holistic picture of all that you need.

System Functionalities:-

1.User Friendly:-

The interfaces of a restaurant management system  are made for ease of usage, an excellent experience for restaurant staff. Also, thanks to the simple to use restaurant softwares, it is easier to train new joinees and helps reduce training costs in terms of time and money.

2.Automatic Data Entry:-

The moment you enter the details of the order , they get saved in a certain file which can be further used for printing the bill for the customer

3.No need for “CALCULATIONS”:-

The system will calculate the total amount for you including all the taxes.

4. Time Saving:-

It saves great amount of time as you don’t need to type anything in whole .Just the numbers corresponding to the given item.

5.

ALGORITHM

//Restaurant Management System

function insert(q,ele)

MAX 🡪queue capacity

q(1:MAX) 🡪queue

f 🡪front

r🡪rear

ele🡪string to insert

1.Start

2.if r = MAX then

* Print(“Queue overflow”)
* Return

3.r = r+1

4.q(r) = ele

5.return

function xdelete(q)

1.Start

2.if isempty(q)= true

* Print(“Queue underflow”)
* return -1

3.z=q(f)

4.f=f+1

5.return z

function display(q)

1.Start

2.if isempty(q) = true

* print(“Queue empty”)
* return

3.for i=f to r

4.print q(i)

5.return

function main()

1.create a file pointer fp

2.open the file “BILL.TXT ” in write(w) mode

3.initialize queue variable x

4.set front = 0 and rear = -1

5.Declare name of hotel

6.while(ch != 0)

* Declare the menu list of hotel
* Ask user to enter choice
* based on choice increment total
* if ch = 7
* fputs("Paneer Tikka..--Rs.150\n",fp);
* tot = tot + 150;
* insert(&x,"Paneer Tikka");

continue for different orders

7.finally calculate gst(9%) by formula

Gst = 9\*total/100

8.Print the grand total and save the entire thing in file “BILL.TXT”

//Restaurant Management System…

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

#include<time.h>

#define MAX 50

#define SIZE 30

typedef struct

{

char s[MAX][SIZE];

int f,r;

}queue;

void insert(queue \*t ,char ele[])

{

if(t->r == MAX -1)

{

printf("\nQueue full");

return;

}

t->r++;

strcpy(t->s[t->r],ele);

}

void xdelete(queue \*t)

{

char z[30];

strcpy(z,t->s[t->f]);

t->f++;

}

void display(queue \*t)

{

int i;

for(i=t->f;i<=t->r;i++)

printf("%s ",t->s[i]);

printf("\n");

}

int main()

{

FILE \*fp;

fp=fopen("BILL.TXT","w");

if(fp == NULL)

{

printf("\nwrong");

exit(0);

}

queue x;

x.f=0;

x.r = -1;

int ch,pr;

float tot=0,gst,price;

time\_t t;

char b[100],s;

fputs("\n\t\t\tWelcome to XXX Hotel!!!!!!\n",fp);

while(1)

{

printf("\n\t\t\tWelcome to PethPooja Hotel!!!!!!");

printf("\nwe serve the following delicacies.......");

printf("\n\t\*\*\*Breakfast\*\*\*");

printf("\n\t1.Poha -- Rs.30");

printf("\n\t2.Upma -- Rs.45");

printf("\n\t3.Idli -- Rs.50");

printf("\n\t4.Dosa -- Rs.70");

printf("\n\t\*\*\*Lunch\*\*\*");

printf("\n\t5.Rice Plate -- Rs.90");

printf("\n\t6.Noodles -- Rs.120");

printf("\n\t\*\*\*Dinner\*\*\*");

printf("\n\t7.Paneer tikka -- Rs.150");

printf("\n\t8.Chicken Tandoori -- Rs.220");

printf("\n\t9.Rogan Josh -- Rs.390");

printf("\n 0. to exit\nEnter choice:--");

scanf("%d",&ch);

if(ch == 0)

break;

switch(ch)

{

case 1:fputs("Poha..--Rs.30\n",fp);

tot=tot+30;

insert(&x,"Poha");

break;

case 2:fputs("Upma..--Rs.45\n",fp);

tot= tot + 45;

insert(&x,"Upma");

break;

case 3:fputs("Idli..--Rs.50\n",fp);

tot = tot + 50;

insert(&x,"Idli");

break;

case 4:fputs("Dosa..--Rs.70\n",fp);

tot = tot + 70;

insert(&x,"Dosa");

break;

case 5:fputs("Rice Plate..--Rs.90\n",fp);

tot = tot + 90;

insert(&x,"Rice Plate");

break;

case 6:fputs("Noodles..--Rs.120\n",fp);

tot = tot + 120;

insert(&x,"Noodles");

break;

case 7:fputs("Paneer Tikka..--Rs.150\n",fp);

tot = tot + 150;

insert(&x,"Paneer Tikka");

break;

case 8:fputs("Chicken Tandoori ..--Rs.220\n",fp);

tot = tot + 220;

insert(&x,"Chicken Tandoori");

break;

case 9:fputs("Rogan Josh...--Rs.390\n",fp);

tot = tot +390;

insert(&x,"Rogan Josh");

break;

}

}

display(&x);

gst=9\*tot/100;

price=tot+gst;

fprintf(fp,"Total = %f\nGST(9per.) = %f\nGrand Total=%f\n",tot,gst,price);

fputs(\_\_TIME\_\_,fp);

fputs(" ",fp);

fputs(\_\_DATE\_\_,fp);

fclose(fp);

fp=fopen("BILL.TXT","r");

if(fp==NULL)

{

printf("\nCAN NOT OPEN FILE");

exit(0);

}

do

{

s=getc(fp);

printf("%c",s);

}

while(s!=EOF);

fclose(fp);

return 0;

}

//OUTPUTS:-







