Department **of Information Technology**

Report on Course Based Project

Selection of food items from different restaurants

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AIM:-

To create a program that allows users to select food items from various restaurants.

PROBLEM STATEMENT:-

We need to Select of food items from different restaurants.

1.0 INTRODUCTION:-

#The program will display a list of available restaurants, and users can choose one of them. Once a restaurant is selected, the program will display a menu of available food items from that restaurant.

#The program will allow users to select one or more food items and add them to their order. Once the order is complete, the program will display the total cost of the order.

#To accomplish this, the program will need to store information about the available restaurants and their menus. This can be done using arrays or functions.

#The program will also need to prompt users for input and handle errors and invalid inputs.

This project will provide a great opportunity to practice your C programming skills, including working with arrays, structs, user input, and conditional statements.

#Additionally, it will teach us how to design and implement a program that solves a practical problem in the real world.

#In summary, this C programming project on the selection of food items from restaurants will allow users to browse through different restaurants and their menus, select the desired food items with the total cost. It is an excellent opportunity to practice our C programming skills.

1.1 PURPOSE:-

This program is developed to automate the customers' selection of food items from different restaurants.

1.2 SCOPE:-

1)The project could have a user interface that allows the user to browse through different restaurants and their menus.

2) The project could allow the user to browse through different menu items and add them to a shopping cart. The project could also calculate the total cost of the items selected by the user.

1.3 TECHNOLOGIES TO BE USED:-

C LANGUAGE

1.4 TOOLS TO BE USED:-

DEV C++

2.0 OVERVIEW

The main objective of this project is to create a program that allows users to select food items from various restaurants**.**

2.1 PRODUCT PERSPECTIVE

***** The main goal of this project is to develop a user-friendly program that enables customers to order food from different restaurants.

*****The program should be easy to use and provide a seamless experience for the customers

2.2 INTERFACE

1) WELCOME SCREEN

2)RESTAURANT SELECTION

3)MENU SELECTION

4)ADD ITEMS

5)TOTAL COST

6)DISCOUNT

7)CHECK-OUT

2.3 SYSTEM FUNCTIONS

111111)Customers can select the restaurant and the desired items from the restaurant.

2)Total cost can be shown on the screen.

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2.4 USER CHARACTERISTICS

1)Owners of restaurants:-Can edit the menu items and cost of them.

2)Customers:-Select the food items from different restaurants.

2.5 FUTURE SCOPE

1) Payment Integration

2) Rating and Review System

3) Customizable Orders

2.6 ASSUMPTIONS AND DEPENDENCIES

A proper net connection is essential to access the database or to use the features of the system.

Algorithm:

This program is a simple command-line menu-driven application that allows the user to choose a restaurant and order from a menu.

Here is a step-by-step algorithm for the program:

1. Include the necessary header files: stdio.h for input/output and conio.h for console input/output functions.
2. Define the main function with an integer return type.
3. Declare three functions a(), b(), and c(). These functions will display the menu for each restaurant and take the user's order.
4. Declare an integer variable op to store the user's choice of restaurant.
5. Display a welcome message to the user.
6. Display the list of restaurants and ask the user to choose one.
7. Use a switch statement to call the appropriate restaurant function based on the user's choice.
8. Each restaurant function displays its menu, takes the user's order, and calculates the total cost.
9. Print the total cost to the console.
10. Return 0 to indicate successful execution of the program.

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
        void a();
        void b();
        void c();
        int op;
        printf("Welcome");
        printf("\nSelect the restraurent");
        printf("\n1.Rajadhani\n2.Swagath\n3.Sitara Grand\n");
        scanf("%d",&op);
        switch(op)
        {
                case 1:
                        a();
                        break;
                case 2:
                   b();
                        break;
                case 3:
                   c();
                        break;

        }
      return 0;
```

```
}
    void a()
    {
        int cost[30],i,total=0,op;
        printf("\nMenu");
        printf("\n1.a   100\n2.b   50\n3.c   200\n");
                for(i=0;i<100;i++)
        {
                scanf("%d",&op);
                if(op!=0)
                {
                switch(op)
                {
                        case 1:
                                cost[i]=100;
                                break;
                        case 2:
                                    cost[i]=50;
                                        break;
                        case 3:
                                    cost[i]=200;
                                        break;
                }
                        }
                        else
                        break;
                        total=total+cost[i];
           }
         printf("total cost is %d",total);
```

```
 }
    void b()
     {
int cost[30],i,total=0,op;
printf("\nMenu");
printf("\n1.a   240\n2.b   420\n3.c   300\n");
          for(i=0;i<100;i++)
{
          scanf("%d",&op);
          if(op!=0)
          {
          switch(op)
          {
                    case 1:
                              cost[i]=240;
                              break;
                    case 2:
                                  cost[i]=420;
                                       break;
                              case 3:
                                  cost[i]=300;
                                       break;
          }
                    }
                    else
                    break;
                    total=total+cost[i];
    }
```

```
 printf("total cost is %d",total);


 }
    void c()
     {
int cost[30],i,total=0,price=0,op;
printf("\nMenu");
printf("\n1.a   340\n2.b   90\n3.c   510\n");
          for(i=0;i<100;i++)
{
          scanf("%d",&op);
          if(op!=0)
          {
          switch(op)
          {
                    case 1:
                              cost[i]=340;
                              break;
                    case 2:
                                 cost[i]=90;
                                      break;
                              case 3:
                                 cost[i]=510;
                                      break;
          }
                    }
                    else
                    break;
                    total=total+cost[i];
```

```
    }
printf("total cost is %d",total);


}
```

Output: