OOM PROJECT REPORT 2020

RESTAURANT BILLING SYSTEM



SYNOPSIS

- X The project "Restaurant Billing System" gives us the facility to manage the Billing system. This application is helpful for staff or admin for building and managing customer details. This application is accessed only by admin, members can't access it directly.
- X The project is very useful for those who want to know about the Restaurant Billing System.
- X This application maintains the records of the Sales of the Product.
- We can enter the details of new food items and retrieve them later in the system. We can generate the bills for the customers. All the necessary requirements for the restaurant billing system have been presented in this project.



INTRODUCTION

- The project is restaurant billing system software for monitoring and controlling the transactions in a restaurant.
- The project restaurant billing system is developed on Visual Basic language which mainly focuses on basic operating systems in a restaurant like View, Menu, Adding new Dishes, Calculate discount and Generate Invoice.
- Restaurant billing system is a Windows application designed to help users maintain and organise Restaurant. Our application is easy to use for both beginners and advanced users. It features a familiar user interface combined with searching, insertion and deletion capabilities.





ADVANTAGES

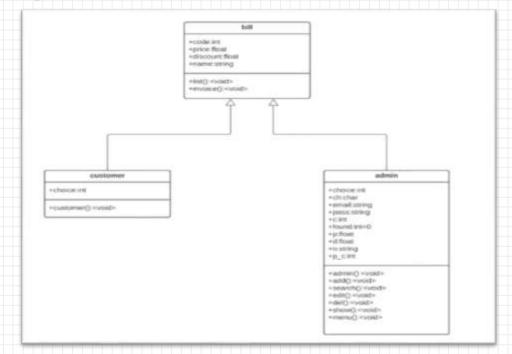
- Less time consuming
- Less paperwork
- Invoice generation can be done easily
- 。User-friendly
- 。Quicker access of Menu



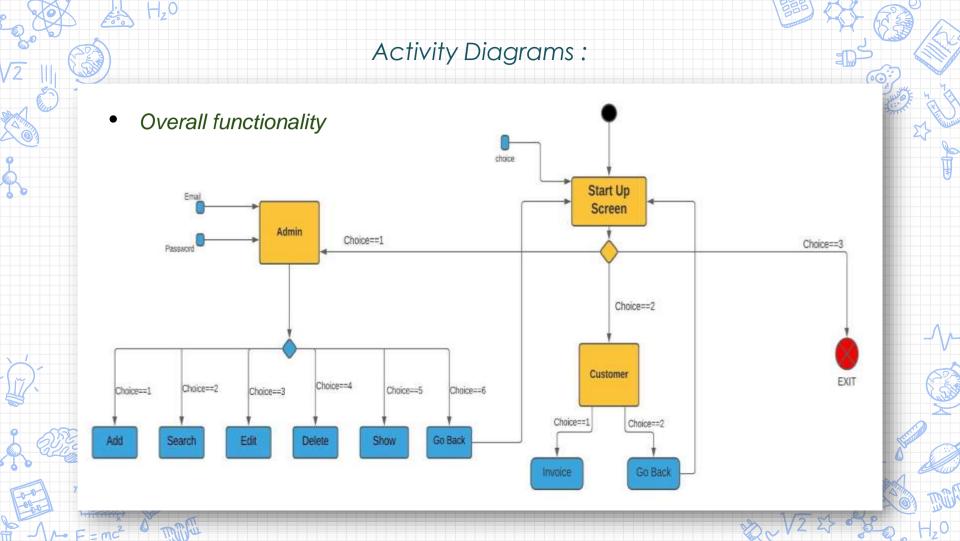


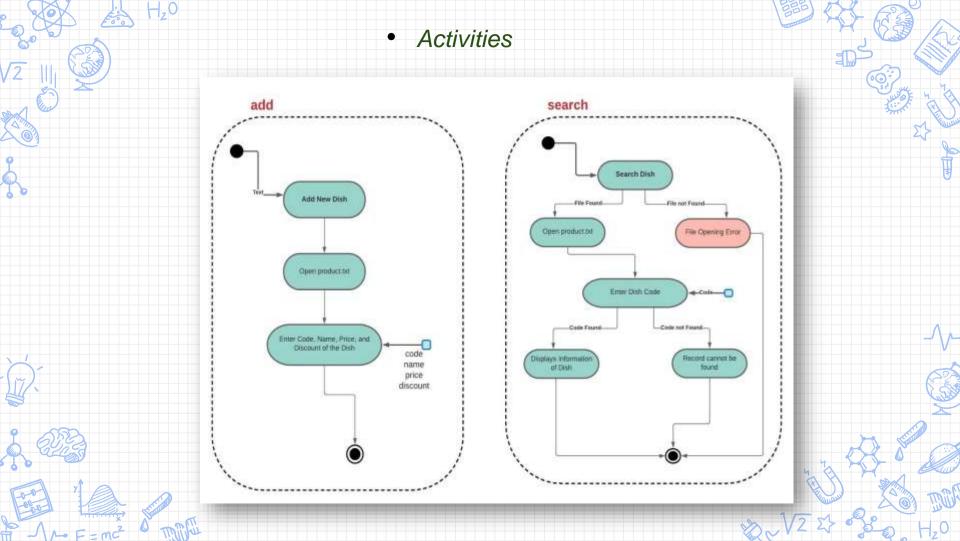
SYSTEM ANALYSIS

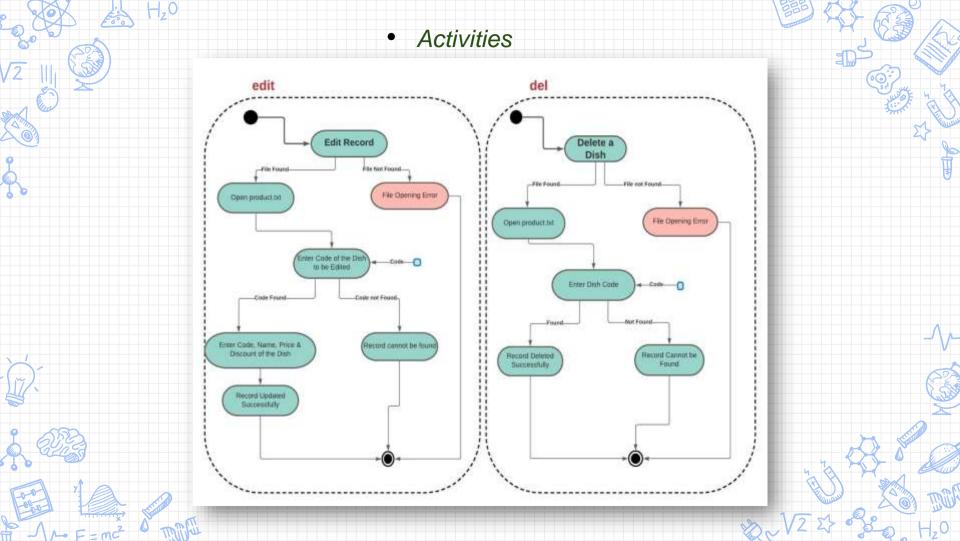
Class Diagram:

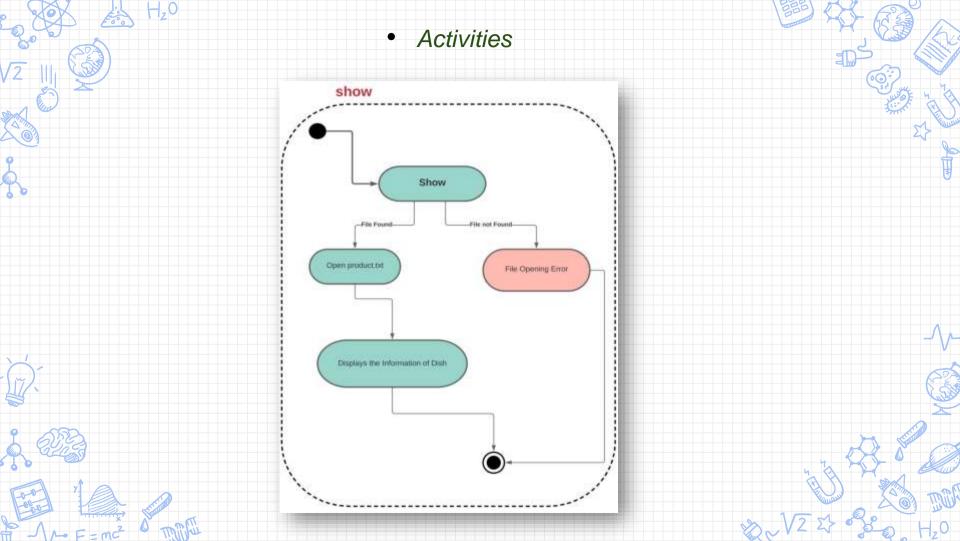


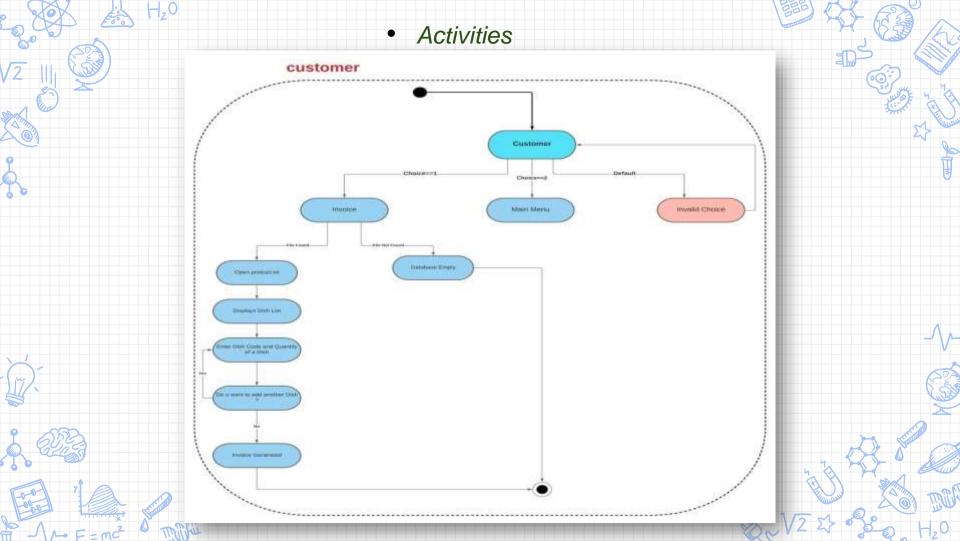












Project Structure

Objects	Naming Convention
Header File	conio.h, iostream, fstream, bill.h, admin.h, customer.h string
Classes	bill Admin Customer
Functions	menu(); admin(); add(); search(); edit(); del(); show(); customer(); invoice(); list();
Data Files	Product.txt, product1.txt
Program Variables	code, price, discount, name, choice, ch, email, pass, c, p, d, file, n, p_c, found, file1, o_c[50], o_q[50], amt, dis, total
Program Files	Main.cpp, admin.cpp, customer.cpp, bill.cpp



Requirements:

Classes:

- Bill
- Customer (Inherited from Bill Class)
- Admin (Inherited from Bill Class)

i.e. Customer & Admin are Derived Classes and bill is the Base class.

Fields and Behaviour of Classes (Behaviour elements are in italics):

- **Bill** : code, name, price, discount, list(), invoice()
- Customer: choice customer()
- Admin : choice, ch, email, pass, c, found, p, d, n, p_c
 admin(), add(), search(), edit(), del(), show(), menu()

On execution of the program the program shows the following options in the Main Menu:

- 1. Admin
- 2. Customer
- 3. Exit

```
Main Menu

1. Admin
2. Customer
3. Exit

Enter Your Choice : 3
PS C:\Users\DELL\Desktop\C++\OOM (1)\OOM\OOM>

[
```



Option 1: On selecting this option, the program asks for administrator Email ID and Password.

```
Login System

E-mail : LCI2020020@gmail.com

Password : ******
```

After entering the valid ID and Password the following choices are displayed:

- X ADD: To add a new dish.
- X SEARCH: To search dishes using dish code.
- X EDIT: To edit the information of a particular dish.
- X DELETE: To delete a particular item(dish).
- X SHOW: To show the list of dishes.
- X GO BACK: To logout from the admin panel.



Admin Panel 1. Add Dish 2. Search Dish 3. Edit Dish Delete Dish 5. Show Dishes 6. Go Back Enter Your Choice : [



Option 2: On selecting this option the following appears:

- ORDER DISH (INVOICE): On selecting this option, the program takes you to the menu screen and following appears:
- "Enter the dish code and Quantity "Same process will be repeated if the customer wants to add more dishes in its order.
- When Order is Completed, the Invoice is generated.
- GO BACK: To logout from the Customer panel.

Option 3: On Selecting this option we will Exit the Program.



IMPORTANT FUNCTIONS AND THEIR PROPERTIES:

The list of all User-Defined Functions and their purposes can be listed as follows:

- **void menu():** This function displays the main menu or welcome screen of the program.
- **void admin():** This function takes you to the admin panel of the program after the validation of Email ID and password.
- **void customer():** This function will take you to the screen of the customer panel.
- **void add():** This function takes all the required details of the new dishes(like code, name, price, discount in %) and adds it to the data file "product.txt".
- **void search():** This function will help us to search the dishes using the product code i.e. you have to enter the product code to search a particular dish and display it on the output screen.
- void edit(): This function will take product code as an input initially to search for a dish whose details you want to edit and after updating the details of the dish(like code, name, price, discount in %) it will be saved in datafile "product.txt".
- **void del():** This function also takes product code as an input to search for the product and its details which you want to delete from the existent data which is present in the file "product.txt".
- void show(): This function will show us the list of all products & their details(like code, name, price, discount in %) which is already present in the menu i.e. in the data file "product.txt".



Add New Dish Dish Code : 5 Name : Rolls Price: 75 Discount in %: 0 Record Inserted Successfully...



Search Dish

Dish Code: 2

Name : Momos

Price: 100

Discount : 0%



Edit Dish

Dish Code: 2

Dish New Code : 1

Name : Burger

Price: 120

Discount in %: 0

Record Edited Successfully...



Delete Dish

Dish Code : 1

Dish Deleted Successfully...



ode	Name		Price	Discount %
	Burger	120		0
2	Momos	100		0
}	Pizza	130		0
1	Muffin	85		0
5	Rolls	75		0



.NO.	NAME	PRICE	
	Burger	120	
	Momos	100	
	Pizza	130	
	Muffin	85	
	Rolls	75	
PLACE Y	/OUR ORDER	=	



	NAME	PRICE	
	Burger	120	
	Momos	100	
	Pizza	130	
	Muffin	85	
	Rolls	75	
ni-k o-d-	C. W.		
Dish Code	: 1		
	tity: 2		



```
D Name Quantity
                              Price
                                      Amount after discount
D No.
       Burger 2
Muffin 3
                              120
                                      240
                                                     240
                              85
                                      255
                                                     255
 Total Amount : 495
```



Team Presentation

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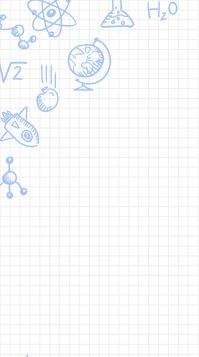
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THANKS!







