THE RESTURANT MANAGEMENT SYSTEM

INTRODUCTION

- As the name suggests that its is for ordering foods at a food house and updating of the menu, discount price by the owner and generates bills of food ordered
- It save time and decreases the work of the owner and waiter too It will also help the owners to handle their customers in a better and a comfortable way

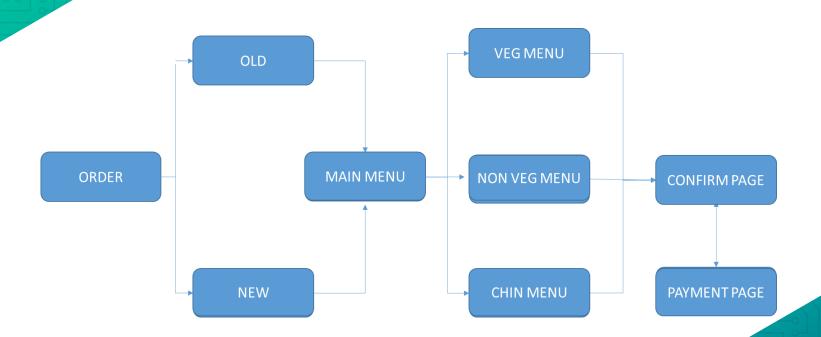
AIM

- As we know how much COVID 19 have affected us all and even more the small food chain as they don't have much capital so we have designed this restaurant billing management system to help them recover faster in the race
- The RESTURANT BILLING MANAGEMENT SYSTEM is a basic program which can be used in small restaurants and food chains so decreasing as much as direct human contact is possible

FLOW OF CODE

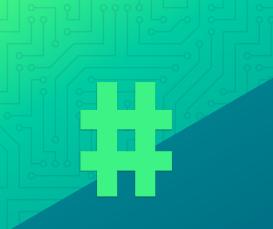


ORDER FOOD



ADMIN VEG **NON VEG AUTHENTICATION ADMIN** UPDATE CHINESE

DISCOUNT



CODE EXPLANATION

MENU CLASS

- For Insertion:-We first create a new node having name of the dish and their price. When the menu is empty, we updated both head and tail with the new node.
- After that for insertion we use tail node. We make the next node of tail as the new inserted node and update the tail to the new node, in this way we can perform the insertion in the time complexity of O(1).

MENU CLASS

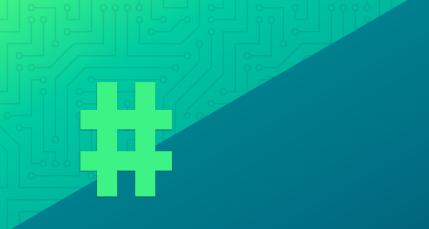
- For Deletion:-We first check whether the linked list is empty or not. If it is not empty then we traverse the list. If the required deleted dish is not in the list then we show an output "Dish not found the menu", and if the dish is found in the list then we simply delete it.
- For show menu:-We first ask the customer about their choice i.e. veg,non-veg,Chinese then we traverse the required list and display the name of the dish with their prices.

CUSTOMER CLASS

- For Insertion:-We allocate a customer id to each of our first time customer. The customer node consists of an id and no. of visits of the customer to our hotel. In this also we have two nodes start and End so that the insertion of the customer can be performed in O(1) time complexity.
- For increasing no. of visits:- Upon the arrival of the customer we ask for their customer id if they have already visited our hotel earlier, then we traverse the customer list and update their no. of visits by 1. If the id given by customer is not found in our record then we display a message "No such id is found".

CUSTOMER CLASS

• For discount:- We also give discount to our regular customer according to their no. of visits. For visits greater than 20 we gave a discount of 25% and for visits greater than 10 we gave a discount of 15%.



DATABASE

- Files was used to store data in a storage device permanently.
- File handling provides a mechanism to store the output of a program in a file and to perform various operations on it.
- We have used files as a database to store the food items in the menu and order list and the customer id and last id for all the function in the program

FILES

- O Veg.txt:-it store the information of all the veg dishes that are inserted by the owner and can be ordered by the customer. The file store the data in the format of first line as name and second as the price.
- onnVeg.txt:-it store the information of all the nonVegdishes that are inserted by the owner and can be ordered by the customer. The file store the data in the format of first line as name and second as the price

FILES

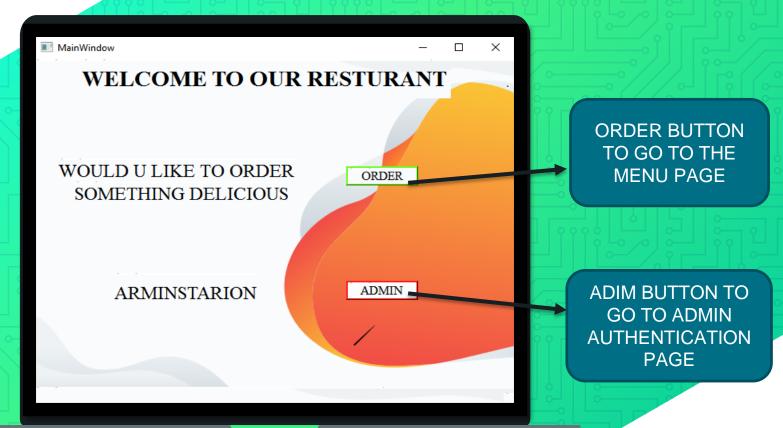
- Chinese.txt:- it store the information of all the Chinese dishes that are inserted by the owner and can be ordered by the customer. The file store the data in the format of first line as name and second as the price
- O Customer.txt:-it conatins the id of the customers and the no fo visits



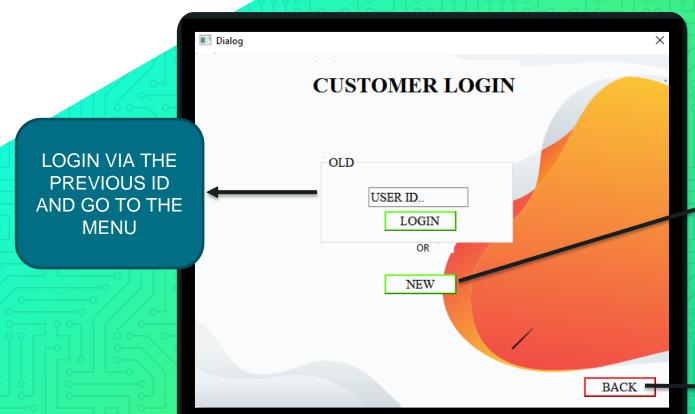


GUI

MAIN WINDOW



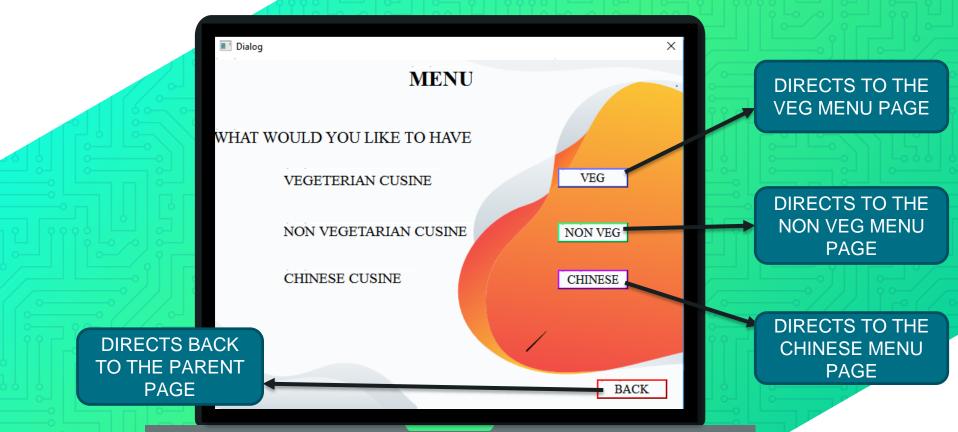
CUSTOMER LOGIN PAGE



ADD A NEW CUSTOMER IN THE DATABASE AND GO TO MENU

GO BACK TO PARENT PAGE

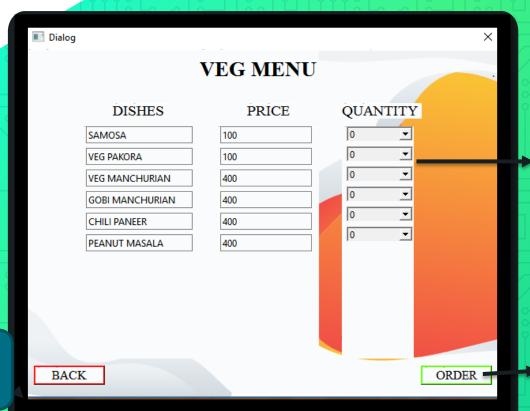
MAIN MENU PAGE



VEG MENU PAGE

DIRECTS TO THE

PARENT PAGE



THE FORM LAYOUT CANTAINS ALL THE INFO OF THE FOOD AVAILABLE AND HAVE COMBO BOX TO SET THE QUANTITY TO SELECT BY THE CUSTOMER

ALL THE SELECTED
ITEM AND TOTAL IS
PASSED TO THE
NEXT PAGE

ORDER CONFIRMATION PAGE



THE TOTAL PRICE
AND THE LIST OF
ALL THE ITEMS
SELECTED IS
PASSED HERE BY
THE PARENT
PAGE

CONFIRM BUTTON
CONFIRM THE
ORDER AND
DIRECTS TO THE
PAYMENT PAGE

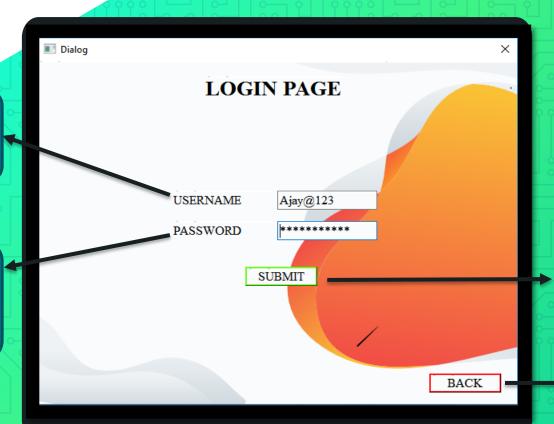
PAYMENT PAGE



LOGIN PAGE

LINE EDIT TO READ USER ID FROM THE USER

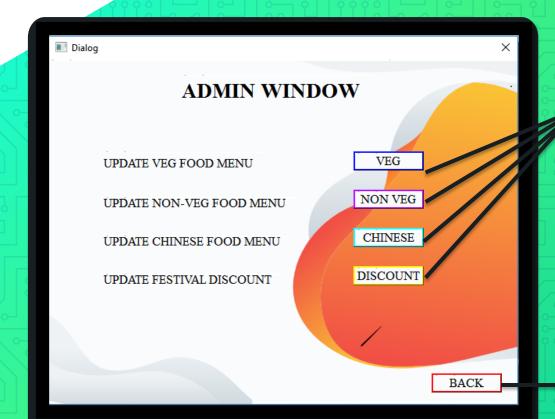
LINE EDIT TO READ PASSWORD FROM THE USER



SUBMIT THE USER ID AND PASSWORD AND CHECK THEIR AUTHENTICATION IN THE DATABASE AND IF TRUE THEN DIRECTS TO THE ADMIN PAGE

DIRECTS TO THE PARENT PAGE

ADMIN WINDOW

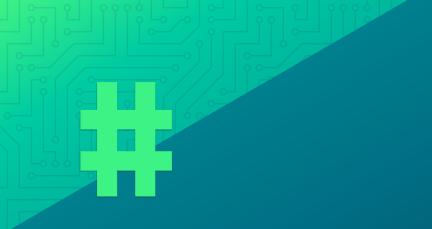


DIERECTS TO THE SPECIFIC PAGE WHERE THE DISHES IN THE MENU CAN BE UPDATED

DIRECTS TO THE PARENT PAGE

UPDATE PAGE





THANKS