Food Ordering System

Project submitted to the

SRM University – AP

for the partial fulfilment of the requirements to award the degree of

Bachelor of Technology

In

Computer Science and Engineering

Submitted by –

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Certificate

Date: 12/12/2022

This is to certify that the work present in this Project entitled "**Food Ordering System**" has been carried out by **Neelofar Shaik** under my/our supervision. The work is genuine, original, and suitable for submission to the **SRM University – AP** for the award of Bachelor of Technology in **School of Engineering and Sciences**.

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Affiliation.

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Affiliation.

Tables of Context

Acknowledgements

We would like to acknowledge all those without whom this project would not have been successful. Firstly, we would wish to thank our Python teacher Mr Suresh Babu Sunkara Sir who guided us throughout the project and gave his immense support. He made us understand how to successfully complete this project and without him, the project would not have been complete.

- This project has been a source to learn and bring our theoretical knowledge to the real-life world. So, we would really acknowledge his help and guidance for this project.

- Which also helped us in doing a lot of research and we came to know about so many new things.

- We acknowledged the kind of support, efforts and timely guidance provided by our group this project report helps us in better understanding of the subject matter.

- We would also like to thank our parents who have always been there whenever needed.

Abstract

- Online food ordering systems have grown 300% regarding penetration in the restaurant business, and one can't afford to hop late on this bandwagon.
- Our Project is about an in-house food ordering system that amplifies the customer's comfort.
- Using this food ordering system, customers can order food from anywhere with just a single click and benefit from personalized offers and discounts.

Introduction

The proposed project “FOOD ORDERING SYSTEM” has been developed to overcome the problems faced in the practicing of manual system. This software is built to eliminate and, in some cases, reduce the hardships faced by the existing system. Moreover, this system is designed for user to carry out its operations in a smooth and effective manner.

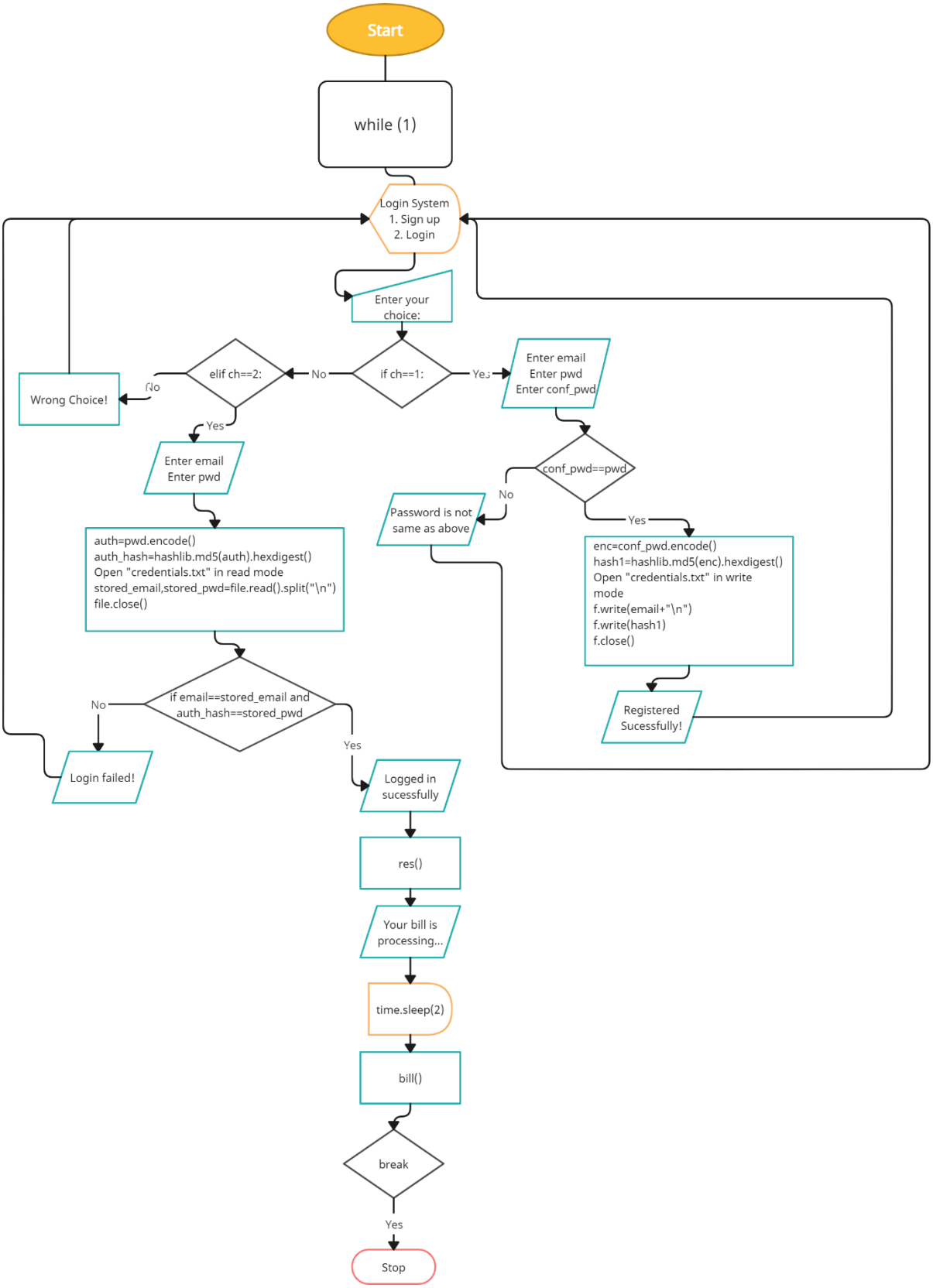
This application is reduced as much as possible to avoid errors while entering data. It also provides error message while entering invalid data. It is user-friendly as no formal knowledge is required to use the system. Therefore, by using this we can order our food from different restaurants easily.

Methodology

The project is done by using file handling. With file handling we can store information. By using file handling, we are storing information of user login details. It will show restaurants and items and prints the total bill. The program is designed such that the console displays a drop-down menu stating various options:

- LOGIN SYSTEM
- ORDER
    - RESTUARANTS
    - ITEMS
    - QUANTITY
- NUMBER
- TOTAL BILL

Flowchart


Start
while (1)
Login System
1. Sign up
2. Login
Enter your choice:
if ch==1:
No
Yes
elif ch==2:
No
Yes
Wrong Choice!
Enter email
Enter pwd
Enter conf_pwd
conf_pwd==pwd
No
Yes
Password is not same as above
enc=conf_pwd.encode()
hash1=hashlib.md5(enc).hexdigest()
Open "credentials.txt" in write mode
f.write(email+"\n")
f.write(hash1)
f.close()
Registered Sucessfully!
Enter email
Enter pwd
auth=pwd.encode()
auth_hash=hashlib.md5(auth).hexdigest()
Open "credentials.txt" in read mode
stored_email,stored_pwd=file.read().split("\n")
file.close()
if email==stored_email and auth_hash==stored_pwd
No
Yes
Login failed!
Logged in sucessfully
res()
Your bill is processing...
time.sleep(2)
bill()
break
Yes
Stop

Algorithm

Step-1: Start

Step-2: Login system

choose sign up or log in

Step-3: Different restaurants will be displayed

Step-4: The user needs to select the restaurant, then the food menu displays

Step-5: Using this feature the customer can navigate through different food items in the restaurants

Step-6: the user chooses the food items and amount of quantity required

Step-7: The amount gets calculated(quantity*cost[j-1])

Step-8: So, this amount is appended in the list in order to calculate the total amount the user needs to pay

Step-9: The bill gets generated on the console

Step-10: The user can pay the bill using two ways card or cash

Step-11: If the user chooses card and pays the amount successfully, Amount paid successfully is displayed or

if the user chooses cash the balance amount is displayed

Step-12: Stop

Discussion

- First it will ask user to sign-in or log-in if user have account, then he can log-in. if user doesn't have account, then user should sign-in and then log-in the account.
- After successfully login restaurant names will be displayed and user should select the restaurant.
- After selecting the restaurant menu of the restaurant will be displayed and user should select the items and quantity.
- Then it will ask options like 1/0 if user press 1 then it will again display the restaurants and again user should choose restaurant and items.
- If user select 0 Total bill will print and user should enter his name and date.
- After entering user details bill will print and user should pay the bill by using card or cash on delivery
- If user press the cash, then he/she should enter the amount that he is paying then balance will be print and then user should enter address and phone number.
- If user press card, then he/she should enter card number, card holder name, amount, pin number, address and phone number.
- Finally, order will be booked.

System Implementation: Main Functions

1. Login System: This display login system whether to sign-in or log-in if you have account log-in, if you not have account sign-in and then log-in.

```
while(1):
    print("======================Welcome to food paradise==================\n")
    print("**********Login System********")
    print("1.Signup:")
    print("2.Login:")
    ch = int(input("Enter your choice: "))
    if ch == 1:
        email = input("Enter email address: ")
        pwd = input("Enter password: ")
        conf_pwd = input("Confirm password: ")
        if conf_pwd == pwd:
            enc = conf_pwd.encode()
            hash1 = hashlib.md5(enc).hexdigest()
            with open("credentials.txt", "w") as f:
                f.write(email + "\n")
                f.write(hash1)
                f.close()
                print("You have registered successfully!")

        else:
            print("Password is not same as above!")
    elif ch == 2:
        email = input("Enter email: ")
        pwd = input("Enter password: ")
        auth = pwd.encode()
        auth_hash = hashlib.md5(auth).hexdigest()
        with open("credentials.txt", "r") as f:
            stored_email, stored_pwd = f.read().split("\n")
        f.close()
        if email == stored_email and auth_hash == stored_pwd:
            print("Logged in Successfully!")
            res()
            break
        else:
            print("Login failed!")
    else:
        print("Wrong Choice!")
```

2. def res( ): This function will ask you choose your restaurant and items and quantity and stores the amount of the item in the form of list

```
def res():
    costv=[120,120,100,150,150,150,250,250,300,350]
    sumv=0


    costf=[600,550,999,899,1199,1299,1350,1450,250,200]
    sumf=0

    costb=[59,189,220,265,131,220,235,105,79,99]
    sumb=0

    costd=[164,115,179,179,179,129,179,179,155,109]
    sumd=0

    costs=[210,220,210,250,200,180,210,145,180,140]
    sums=0

    coste=[265,275,205,215,255,205,300,205,330,235]
    sume=0


    while True:
        print("\n*********Select your Restaurant*******")
        print("1.Veg Street")
        print("2.Mandi")
        print("3.Mc.Donalds")
        print("4.KFC")
        print("5.Brew Buzz")
        print("6.Star Bucks")
        ch1=int(input("select your choice : \n"))

        if (ch1==1):
            print("*****MENU*****")
            print("1.Spring Rolls-Rs:120")
            print("2.Paneer 65-RS:120")
            print("3.Chilli Mushroom-Rs:100")
            print("4.Gobi 65-Rs:150")
            print("5.Crispy Corn-RS:150")
            print("6.Veg Friedrice-Rs:150")
            print("7.Manchurian Rice-Rs:250")
            print("8.Paneer Friedrice-Rs:250")
            print("9.Veg Biryani-Rs:300")
            print("10.Paneer Biryani-Rs:350")
            for i in range(1):
                j=int(input("Enter choice : "))
                Quantity=float(input("Enter Quantity : "))
                amount=Quantity*costv[j-1]
                sumv=sumv+amount
            totalsum.append(sumv)
            print("Total Bill: ",sumv)
            a=(int(input("Press 1 to continue or 0 to bill : ")))
            if a == 1:
                res()
            elif a == 0:
                print("YOUR BILL IS PROCESSING")
                print(".")
                print("..")
                time.sleep(2)
                bill()
```

3. def bill( ): This function display the total bill that you ordered and ask you details like name mobile number and house address

```
def bill():
    print("***ENTER YOUR DETAILS*****")
    billname=str(input("Enter your name : "))
    date=str(input("Enter Today's data(dd/mm/yy) : "))
    print("=================Total Bill==================")
    print("Date",date)
    print("Name : ",billname)
    print("=============================================")
    print("Total Bill:",sum(totalsum))
    print("1.cash")
    print("2.card")
    print("\nEnter your choice : ")
    chcash=int(input())
    if(chcash==1):
        cashamount=float(input("Enter the amount customer given : "))
        balance=cashamount-sum(totalsum)
        print("balance : ",balance)
    else:
        cardnum=int(input("Enter Your Card Number:"))
        cardname=str(input("Enter Card Holder Name:"))
        topayamount=int(input("Enter Total Bill:"))
        cardpin=int(input("Enter Your Pin:"))

        print("Amount piad Successfully!")
    house=str(input("Enter Your Address:"))
    pins=int(input("Enter Your Postal Code:"))
    number()
    print("Your Order is Confirmed!!")
    print("**THANKYOU**")
    sys.exit()
```

4. def number( ): This function will ask user to enter their phone number if user enter wrong number it will show invalid number if entered number is correct then it will print number

```
def number():
    num = int(input("Enter number: "))
    if num >= 1000000000:
        print(num)
    else:
        print("Invalid Number Enter again")
        number()
```

Output

- After log-in and selecting the restaurant and items

```
======================Welcome to food paradise=================

*************************Login System************************
1.Signup:
2.Login:
Enter your choice: 2
Enter email: A
Enter password: A
Logged in Successfully!

*********************Select your Restaurant*********************
1.Veg Street
2.Mandi
3.Mc.Donalds
4.KFC
5.Brew Buzz
6.Star Bucks
select your choice :
1
************MENU************
1.Spring Rolls-Rs:120
2.Paneer 65-RS:120
3.Chilli Mushroom-Rs:100
4.Gobi 65-Rs:150
5.Crispy Corn-RS:150
6.Veg Friedrice-Rs:150
7.Manchurian Rice-Rs:250
8.Paneer Friedrice-Rs:250
9.Veg Biryani-Rs:300
10.Paneer Biryani-Rs:350
Enter choice : 1
Enter Quantity : 1
Total Bill:  120.0
Press 1 to continue or 0 to bill : 0
YOUR BILL IS PROCESSING
.
..
```

- Paying bill using card

```
********ENTER YOUR DETAILS************
Enter your name : Ram
Enter Todsy's data(dd/mm/yy) : 15/12/22
=================Total Bill==================
Date 15/12/22
Name :  Ram
=============================================
Total Bill: 120.0
1.cash
2.card

Enter your choice :
2
Enter Your Card Number:12345678
Enter Card Holder Name:Ram Charan
Enter Total Bill:120
Enter Your Pin:1234
Amount piad Successfully!
Enter Your Address:One Town
Enter number: 9849113419
9849113419
Your Order is Confirmed!!
*******THANKYOU*******
```

- Paying bill by cash

```
********ENTER YOUR DETAILS************
Enter your name : Ram
Enter Todsy's data(dd/mm/yy) : 15/12/22
================Total Bill==================
Date 15/12/22
Name :  Ram
=============================================
Total Bill: 120.0
1.cash
2.card

Enter your choice :
1
Enter the amount customer given : 150
balance :  30.0
Enter Your Address:One Town
Enter number: 9849113419
9849113419
Your Order is Confirmed!!
*******THANKYOU*******
```

Concluding Remarks

The project has really been faithful and informative. It has made us learn and understand the many trivial concepts of python language. We have used various functions of python libraries to build a user-friendly application. The fast-growing use of the internet confirms the good future and scope of the proposed project. Finally, it has taught us a valuable lifelong lesson about the improvements and working and interacting in a group.

Future Work

- To learn python language perfectly and try to develop good applications like graphics.

References

- Lecture Notes