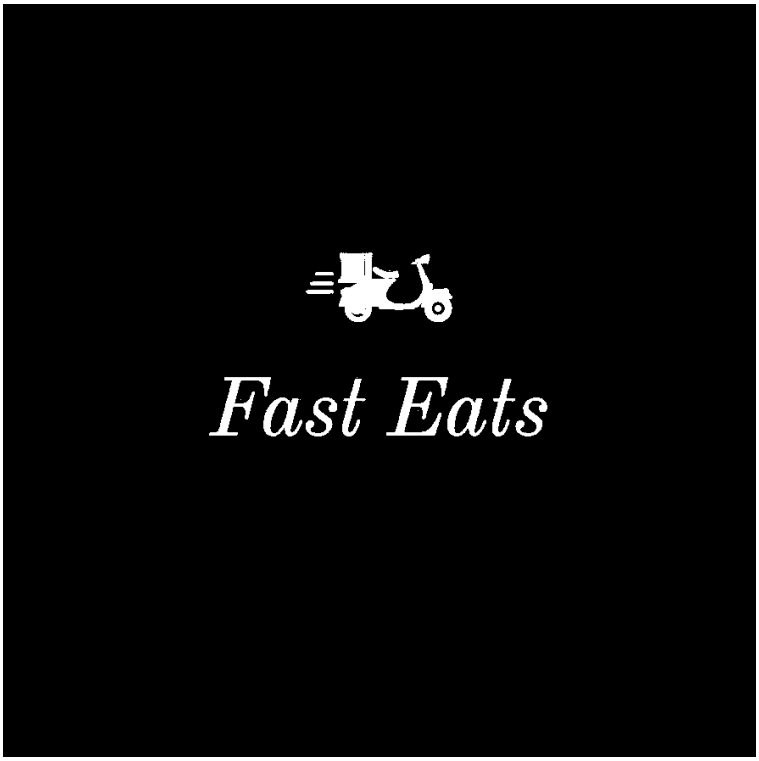
Restaurant Ordering/Rating System



Done by:
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Class 12 F1 February 2023

BONAFIDE CERTIFICATE

Certified to be the bonafide project work done by

Master / Miss _____

of Class _____ in PADMA SESHADRI BALA BHAVAN SR. SEC. SCHOOL, CHENNAI.

During the year _____

Date _____ P.G.T. in _____

Chennai

Submitted for All – India Senior Secondary Practical held in

_____ at

_____ Chennai.

Date _____ Examiner

Seal

Acknowledgements

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Introduction

What is one common thing every human shares? Food. Food is a universal language and necessity for the human race to survive. An average adult consumes about 2 kilograms of food and if we multiply that by 8 billion, we can say that around 16 billion kilograms of food are consumed each and every day. However, preparing and cooking food is not an easy task. It takes long hours and tedious preparation for someone to make a meal that will get consumed in under half an hour. People saw this task of cooking a meal as a nuisance. This however gave birth to the restaurant and food service industry. People started paying someone else to cook food which would be consumed by them shortly.

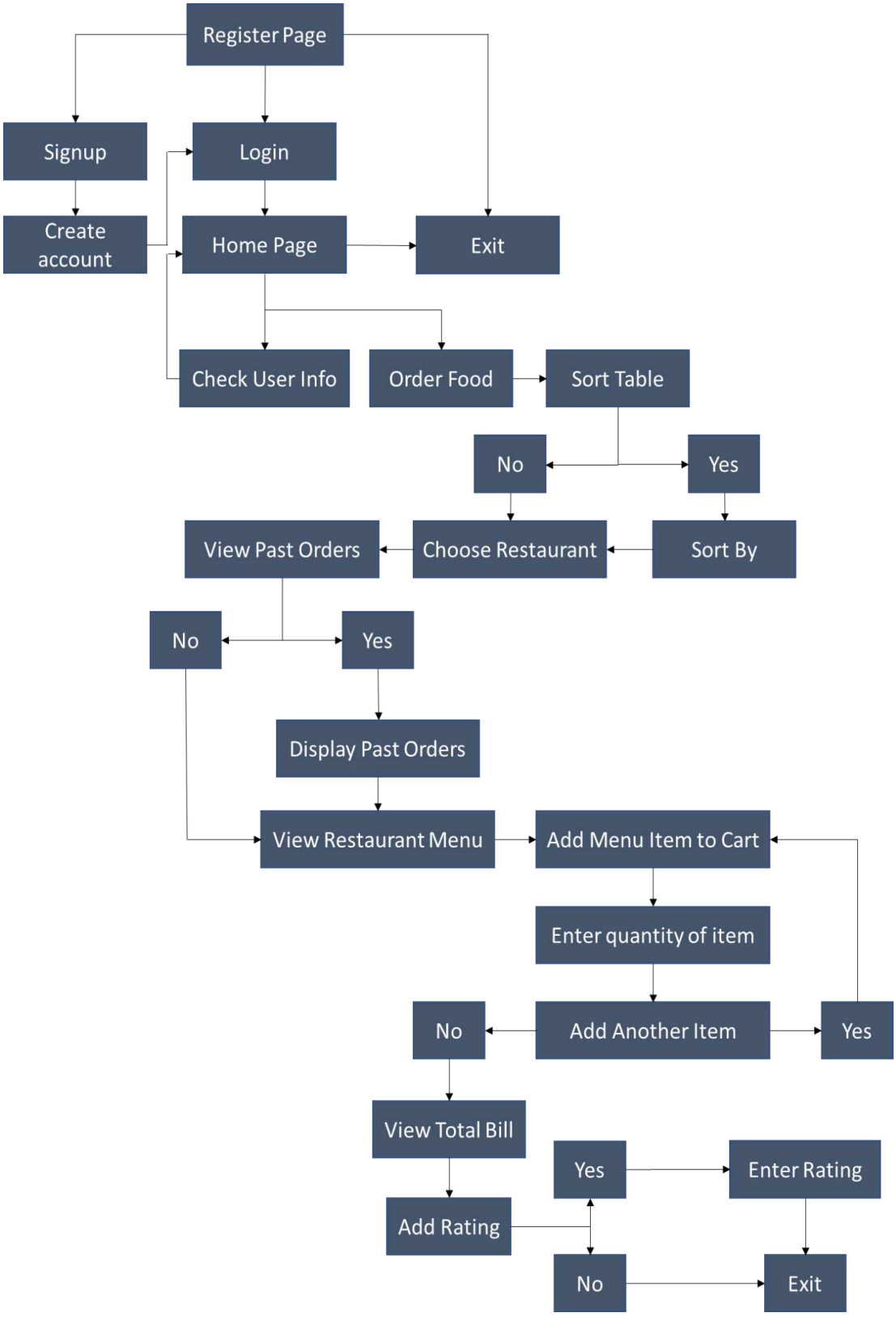
Up till the 20th century this was mainly done in restaurants. A person had to go to a restaurant and physically order the food for consumption. After analyzing the problem further, they came up with the idea of delivery systems. A person could just send a message or call the restaurant and place the order which would then be prepared and delivered right to their doorstep. This was huge as someone who has just come home from a long day of work, or someone who feels tired or unmotivated would prefer to relax at home and enjoy a cooked meal delivered right to them rather than making their own food. This system was a huge success. But as time passed we could see some of the problems with the same. This process of calling and placing your orders had a few downsides. Firstly, multiple people are not able to call the restaurant and place an order at the same time. Therefore a person has to wait until the receiver is free to place their order. Secondly, this system requires a human interface at the receivers end to receive and note these orders down and pass it on

to the chefs. This system hence allowed for human error to take place. A busy day might entail hundreds of orders, each one different from the former. It is a tedious job to keep track of these orders and note each one of them correctly. In an age of technological revelation and digitalization, the people get busier and these new technological devices and applications make lives easier. The On set of the 21th century has brought about many changes in our lifestyle and most of these have been for the better, making our lives much easier. After analyzing the problem with the current delivery system, people started to make online websites and applications where a person could easily choose a restaurant, pick their favorite dishes and these will be delivered to their doorstep within minutes. Everyone nowadays has phones and computers to access the internet and place an order. This was the coming of a new age of digital food service. This system was perfect, It had no human interaction so the room was error was very minimal. A person is able to clearly see what their options are and choose from a wide variety of them. And best of all, it requires absolutely minimal effort, just 3 clicks and their food is on the way. We saw the advantages that this system has and hence this was the inspiration behind our application. By removing unnecessary human intervention at every turn. We have made the process of having food delivered from restaurants much easier and a stress free task that anyone can do anywhere with the press of a few buttons.

Objective and Scope

The main objective of our product was to improve quality of life. We want to make the task of enjoying an exquisite meal at home something one can do with little to no effort. Our project gives users the freedom of choice. They are allowed to choose from a wide variety of their favorite restaurants on the go. Our secondary objective was to reduce the number of mediators between the person ordering the food and the chef that prepares it. This allows for minimal error and loss of information compared to when there are multiple mediators like the waiter, call receiver etc. Using our application, the orders would ideally appear on a small screen that was set-up in the restaurant kitchen to which the order was placed. This would then be noted by the chef who prepares the meal and sends it out for dispatch, where one of our own certified delivery men would pick up the order and deliver it to the users location. Our project has a lot of potential to be developed into a massive system like an online retailer. Currently we are partnered with restaurants and they are our main partners. However we would like to partner with ideally every restaurant in our city and slowly expand into other cities too . We can also start an online grocery retailing section of our app by partnering with local supermarkets and stores.

System Design



List of Datasets and Storage Units

Files

Name	Type	Purpose
userdata.dat	Binary File	Used to store user info (Username and password)
data.csv	CSV File	Contains restaurant data (Restaurant Name, Menu)
rating.csv	CSV File	Contains user input restaurant rating
ratingavg.csv	CSV File	Contains average rating for each restaurant

restloc.csv	CSV File	Contains the restaurant name and their respective locations in Chennai
phonenumber.dat	Binary File	Contains the previous orders of every user

Contents of Datasets

UserData.csv

Encrypted Username	Encrypted Password
gAAAAABjj_X_3VL3OYIwfsGAfRBFXRBvDVkDPQtg1CZmoH8cw6n064Vz5Ou6GKHPrM_zsl7zVc4oOyC2c9QqUhNs9s2C-k1aig==	gAAAAABjj_X_zxvORaHUmX2QXRc2-w3aPBd7UZa4JuBHzbSh22w6Hs1edcXujU-c809kFhxaamwciN_h23VvidU37VCPm1sb0g==
gAAAAABjj_ZL-aYT3w6S0OUfZ-R7mEgFmRwhfQJPBeqkT8cd_Pf___3m9Ef7GVZVh8pPlUuUh7EJdht-EiB9fJ0j_xv8vxzMo6Q==	gAAAAABjj_ZLvfqdGuQw7_OHaMgmprO59ZoNgy3DkE6MXPKZF1iTzGyxoQFFm_nFTPPqBwjAZA_vBvc8-pqnp7r6kwhTj_mUuA==
gAAAAABjj_bfdbd_LUHePced3pUYrxRJJj_WXNKp5k0NE6OWUt6bN03gmit743QLkouGco9bGi_ln4yM2NzFCI93INLOLn1oRQ==	gAAAAABjj_bf_3CS1pXH4rcCR2kaXAKoohx7yQmrNCHZHeZcOBiNew2JD79b98_wJMTHFMba1DlwNPNBOgwicXYdaPKL0s7rDQ==
gAAAAABjj_saltifOO1u7teezEd8y68JGjegWONPJLkkqpxCM-v8N6Hg4Pt63k0HeTH3amMqQulgMat_5rG2P5z9qG2TPp-2hQ==	gAAAAABjj_saGbEv9AowWG9GBM4XFXUGENyCxW1OWtLCoq-Y8ehkPxeVLsTSJ8495AmtHxvC6RH70UzkAhfd6tPskKhErqjxCw==

Data.csv

Geetham Veg Restaurant		
Idli	Veg	50
Dosa	Veg	70
Ghee Roast	Veg	164
Butter Roast	Veg	164
Plain Uthappam	Veg	119
Onion Uthappam	Veg	138
Rice	Veg	100
Chapathi 2nos	Veg	106
Coffee	Veg	45
Horlicks	Veg	90
Tea	Veg	50

Milk	Veg	50
Saravana Bhavan		
Sambar Vadai 2nos	Veg	90
Curd Vadai 2nos	Veg	104.76
Chapati 2nos	Veg	76.19
Rice	Veg	80
Chapati	Veg	90
Idli	Veg	45
Poori	Veg	60
Dosai	Veg	75
Masala Dosai	Veg	90
Coffee	Veg	60
Dosa	Veg	70

A2B Veg		
Mini Idly	Veg	120
Sambar Idly	Veg	90
Masala Dosai	Veg	130
Onion Dosai	Veg	130
Poori Masala	Veg	105
Rava Kitchadi	Veg	90
Medhu Vadai	Veg	60
Sambar Vadai-1 Pc	Veg	80
Shree Mithai		
Samosa	Veg	58
Butter Muruku	Veg	130

Salted Potato Chips	Veg	68
Dal Kachori	Veg	58
Ribbon Muruku	Veg	90
Salted Triangle Puff	Veg	59
Vegetable Spring Roll	Veg	54
Pani Poori	Veg	61
Pav Bhaji	Veg	125
Bhel Poori	Veg	80
Manoj Bhavan Veg Restaurant		
Vegetable Spring Rolls	Veg	188.5
Gobi Manchurian Dry	Veg	240.5
Honey Chilli Paneer	Veg	299
Sambar Idly	Veg	91

Parotta Kurma	Veg	91
Channa Bhatura	Veg	130
Kaikari Kothu Parotta	Veg	156
Chilli Parotta	Veg	62.5
Burger King		
Veggie Strips(5 Pcs)	Veg	49
King Fries	Veg	119
Cheesy Fries	Veg	139
Chocolate Thick Shake	Veg	159
Veg Whopper + Veg Whopper	Veg	338
Veg Whopper with Cheese	Veg	198
2 Lite Whopper Jr Chicken + 1 King Fries+ 1 Chicken Fries	Non Veg	476

Chicken Whopper + Chicken Whopper	Non Veg	398
Boneless Wings Large	Non Veg	249
Mutton Whopper Double Patty	Non Veg	389
Chicken Whopper with Cheese	Non Veg	219
KFC		
Veg Biryani Bucket	Veg	188
2 X Veg Krisper Burgers	Veg	159
2 X Veg Krispers Burger Meal	Veg	269
Chocolate Lava Cake	Veg	109
Large French Fries	Veg	120
French Fries -Medium	Veg	100
Chicken Biryani combo - for 2	Non Veg	795
Chick'n Dip Combo -for Many	Non veg	719

Chicken Bucket for Two	Non Veg	600
Peri Peri 6pc Chicken Strips	Non Veg	280
Subway		
Paneer Tikka Sandwich	Veg	232.75
Tandoori Tofu Sandwich	Veg	232.75
Corn & Peas Sandwich	Veg	213.75
Chatpata Chana Sandwich	Veg	213.75
Egg & Cheese Sandwich	Non Veg	194.75
Chicken Slice Egg & Cheese Sandwich	Non Veg	213.75
Chicken Kofta Sandwich	Non Veg	251.75
Chicken Slice Sandwich	Non Veg	251.75

Domino's Pizza		
The Cheese Dominator	Veg	689
The 4 Cheese Pizza	Veg	689
Margherita	Veg	309
Farmhouse	Veg	529
Moroccan Spice Pasta Pizza	Non Veg	569
Chicken Dominator	Non Veg	669
Non Veg Supreme	Non Veg	669
Chicken Pepperoni	Non Veg	669
Oven Story Pizza		
2 Veg - Half - Pizzas-Medium	Veg	339
Cheese-Infused Garlic Bread (with Free Cheese Dip)	Veg	135

Dilli ke Chole Lasagne	Veg	239
Molten Lava Cake	Veg	99
Two Classic-Non-Veg Medium Pizza Combo	Non Veg	699
Two Special-Non-Veg Medium Pizza Combo	Non Veg	799
Peri Peri Mutton Semizza [Half Pizza]	Non Veg	359
Chicken Kheema Tikka & Tandoori Cheese Semizza [Half Pizza]	Non Veg	359
Pizza Hut		
Cheesy Momo Mia Pizza Veg	Veg	329
Cheesy Classic Veg Combo	Veg	188
Classic Corn - New	Veg	79
Classic Paneer Capsicum & Onion - New	Veg	129

Creamy Garlic Breadsticks	Veg	169
Triple Chicken Feast	Non Veg	409
Chicken Supreme	Non Veg	409
Super Value Deal : 2 Medium Veg Pizzas	Veg	649
Super Value Deal : 2 Medium Non -Veg Pizzas	Non Veg	749
The Bowl Company		
Indonesian Sambal Fried Rice (Mini)	Veg	179
Bangkok Red Curry with Scallion Rice (Mini)	Veg	199
Paneer Makhani Biryani	Veg	219
Nawabi Paneer Lababdar with Matar Pulao	Veg	209

Malaysian Chicken Curry with Selasih Rice (Mini)	Non Veg	209
Malabar Chicken Roast with Ghee Rice (Mini)	Non Veg	239
Chef's Special Egg Biryani	Non Veg	189
Kadhai Chicken with Jeera Rice	Non Veg	209
Cafe De Paris		
Pasta Arabiatta	Veg	425
Pasta Ala Pesto	Veg	425
Burnt Chilly Paneer	Veg	345
Mint And Corn Paneer	Veg	325
Chicken Wings	Non Veg	380
Burnt Chilli Chicken Quesadillas	Non Veg	385
Classic Fish & Chips	Non Veg	395

Dynamite Prawns	Non Veg	475
Krispy Kreme		
Chocolate Dream Cake	Veg	88
Double Chocolate Cake	Veg	88
Krunchy Hazelnut	Veg	88
Silky Chocolate Shake	Veg	160
Coffee Frappe Shake	Veg	160
Vanilla Choco Chip	Veg	88
Chocolate Almond Donut	Veg	120
Buy 4 & Get 2 Free All Assorted Donuts	Veg	460
Writer's Cafe		
Tricolour Pizza	Veg	210

Foccacia	Veg	215
Kashmiri Chilli Flammkuchen	Veg	140
Mac & Cheese	Veg	215
French Toast	Non Veg	130
Sticky Lemon Chicken	Non Veg	215
Chicken Stroganoff With Buttered Rice	Non Veg	320
Tuna And Olives Toastie	Non Veg	195

Rating.csv

Name of the Restaurant	Ratings
Geetham Veg Restaurant	4.1;4.1;4.0;4.0;4.1;4.1;3.8;4.1;1.0;3.0;
Saravana Bhavan	4.0;3.2;4.1;2.0;3.2;4.1;4.3;5.0;
Shree Mithai	1.0;2.3;4.4;3.2;4.6;5.0;4.5;3.2;4.3;4.4;
Geetham Veg Restaurant	4.1;4.1;4.0;4.0;4.1;4.1;
Saravana Bhavan	4.0;3.2;2.5;4.3;5.0;4.4;4.6;3.2;4.5;
A2B Veg	4.3;4.3;3.2;5.0;4.3;4.8;4.9;4.2;3.2;
Shree Mithai	3.5;4.2;5.0;4.2;4.3;5.0;5.0;3.9;4.2;
Manoj Bhavan Veg Restaurant	3.9;4.1;4.2;4.8;4.2;3.2;3.6;2.0;1.0;
Burger King	5.0;4.2;3.8;4.2;3.9;4.3;3.4;4.3;4.6;3.8;
KFC	3.8;4.1;3.2;5.0;4.6;4.1;3.9;4.8;5.0;3.8;4.1;
Subway	4.0;4.3;2.5;3.2;4.3;3.8;4.2;4.6;4.3;5.0;

Domino's Pizza	2.0;4.0;3.2;4.2;4.6;4.0;4.8;5.0;4.8;4.6;
Oven Story Pizza	3.9;4.1;0.5;4.1;3.8;4.1;4.8;5.0;4.8;5.0;4.8;
Pizza Hut	4.0;4.1;3.8;3.8;4.2;3.9;4.3;4.1;4.1;4.8;5.0;4.3;2.1;4.1;
The Bowl Company	3.8;4.1;4.1;3.8;4.1;4.0;3.8;4.1;4.1;4.2;4.1;
Cafe De Paris	3.9;4.2;2.0;4.3;1.0;4.3;5.0;4.8;4.3;3.6;4.2;
Krispy Kreme	4.1;3.8;4.3;3.0;3.0;2.8;4.1;3.2;5.0;
Writer's Cafe	4.1;3.8;4.2;3.9;4.2;3.8;4.3;3.9;3.2;3.9;4.1;
Roll Baby Roll	3.2;4.1;4.5;4.7;3.2;4.9;4.3;4.5;5.0;4.8;4.6;4.3;
The Sandwich Shop	4.2;3.2;3.8;2.5;5.0;4.2;3.8;2.9;5.0;4.6;5.0;
Sigree	4.3;3.6;3.9;2.6;4.0;4.6;1.0;0.5;4.5;4.6;4.8;4.3;
Chai Kings	4.2;3.2;4.9;5.0;3.2;2.9;3.8;2.0;5.0;3.8;4.3;4.2;3.8;5.0
Cake Works	4.6;1.0;0.5;3.2;5.0;4.5;3.9;4.6;5.0;2.8;4.9;4.2;

Ratingavg.csv

Name of the Restaurant		
Geetham Veg Restaurant	3.63	10
Saravana Bhavan	3.73	8
Shree Mithai	3.69	10
Geetham Veg Restaurant	4.06	6
Saravana Bhavan	3.96	9
A2B Veg	4.24	9
Shree Mithai	4.36	9
Manoj Bhavan Veg Restaurant	3.44	9
Burger King	4.15	10
KFC	4.02	4
Subway	4.02	10

Domino's Pizza	10.33	6
Oven Story Pizza	4.08	11
Pizza Hut	3.89	14
The Bowl Company	4.01	11
Cafe De Paris	3.78	11
Krispy Kreme	3.7	9
Writer's Cafe	3.94	11
Roll Baby Roll	4.34	11
The Sandwich Shop	4.01	11
Sigree	3.49	11
Chai Kings	3.84	11
Cake Works	3.63	11

Restloc.csv

Name of the Restaurant	Location
Geetham Veg Restaurant	T Nagar
Saravana Bhavan	KK Nagar
A2B Veg	Ashok Nagar
Shree Mithai	Ashok Nagar
Manoj Bhavan Veg Restaurant	Ashok Nagar
Burger King	Ashok Nagar
KFC	Ashok Nagar
Subway	Valasaravakkam
Domino's Pizza	K.K Nagar
Oven Story Pizza	Vadapalani
Pizza Hut	Ashok Nagar

The Bowl Company	Vadapalani
Cafe De Paris	Alwarpet
Krispy Kreme	Thousand Lights
Writer's Cafe	Egmore
Roll Baby Roll	Nungambakkam
The Sandwich Shop	Kodambakkam
Sigree	Anna Nagar
Chai Kings	Egmore
Cake Works	Choolaimedu

Phoneno.dat

[['8432504059', datetime.datetime(2022, 12, 10, 18, 40, 0, 183847), 'Shree Mithai', [['S.No', 'Item', 'Quantity', 'Price'], [1, 'Bhel Poori', 3, 240], [2, 'Pav Bhaji', 4, 500], [3, 'Samosa Chaat', 1, 95]]], ['8432504059', datetime.datetime(2022, 12, 10, 18, 42, 57, 701400), 'Geetham Veg Restaurant', [['S.No', 'Item', 'Quantity', 'Price'], [1, 'Idli', 5, 250], [2, 'Coffee', 2, 90], [3, 'Chapati', 3, 240]]], ['8432504059', datetime.datetime(2022, 12, 10, 18, 44, 25, 821757), 'Shree Mithai', [['S.No', 'Item', 'Quantity', 'Price'], [1, 'Samosa Chaat', 4, 380], [2, 'Bhel Poori', 2, 160]]], ['8432504059', datetime.datetime(2022, 12, 10, 18, 51, 42, 912191), 'Geetham Veg Restaurant', [['S.No', 'Item', 'Quantity', 'Price'], [1, 'Idli', 5, 250], [2, 'Dosa', 3, 210], [3, 'Coffee', 3, 135]]], ['8432504059', datetime.datetime(2022, 12, 11, 14, 29, 57, 104080), 'Geetham Veg Restaurant', [['S.No', 'Item', 'Quantity', 'Price'], [1, 'Idli', 3, 150]]]]

List of Global Variables and Functions

Global Variables

Global Variables	Purpose
restdict	Dictionary containing data of all restaurants
phoneno	Contains the phone number of the user
ratingdict	Dictionary containing the rating of respective restaurants
restchoice	Contains the name of the restaurant chosen by the user
averrest	Contains the average price of each restaurant
cart	Contains the list of food ordered by the user
ratelist	Contains the ratings of each restaurant

User Defined Functions

User Defined Functions	Purpos e
entersite()	Function for login/sign up
getdata()	Function to get data from data.csv file
getrestloc()	Function to get the restaurant location
averrestau(restdict)	Function to get the average price of each restaurant
dispavg(averrest, restdict, getrestloc())	Function to get the data for the restaurant which the user chose.
addtocart(restdict)	Function to get the order of the user
viewcart(cart)	Function to give the bill based on the order of the user

ratingscreate()	Function to create a file called ratefile which contains empty ratings in a particular format and provides rating in list format
ratingsavg()	To write the rating provided by the user to ratings.csv

Module Functions

Module	Function	Purpose
CSV	reader()	To read the contents of a csv file
CSV	writer()	To write content to a csv file
Cryptography	fernet()	To encrypt user data using a particular key
Cryptography	key.encrypt()	To encrypt user data using the key provided
Cryptography	key.decrypt()	To decrypt user data based on the key provided
Ast	literal_eval()	To evaluate expression to its literal value
Prettytable	prettytable()	To display the data in an aesthetically pleasing manner to the user
Decimal	decimal()	To convert a floating number to decimal for operations
Random	randint()	To make the login page eye catching
Pickle	load()	To load data from a binary file
Pickle	dump()	To dump data into a binary file
Time	sleep()	To add aesthetics to login page

Datetime	datetime.datetime.now()	To record the time at which an order is placed

Source Code

```
import csv
from prettytable import PrettyTable
from decimal import *
import random
import pickle
import time
import datetime as dt
from cryptography.fernet import Fernet


# ASKS THE USER WHETHER THEY WANT TO LOGIN OR SIGNUP
def entersite():
    print('''Welcome to Fast Eats!
    1.Sign up
    2.Login
    3.Exit''')
    choice = int(input("What would you like to do: "))
    if choice == 1:
        signup()
    elif choice == 2:
        login()
    elif choice == 3:
        quit()


key = Fernet(b'7FXASAwFtL74HPsAtwXMjTrmyAQM3-pUF_C6dpsGeF4=')


# ALLOWS THE USER TO SIGNUP
def signup():
    f = open('UserData.csv', 'a', newline='')
    w = csv.writer(f)
    while True:
        phoneno = input("Enter Phone number: ")
        if len(phoneno) == 10:
            break
        else:
            print("Enter Valid Phone Number!")
            continue
    while True:
        password = input("Enter password(Include an
uppercase,lowercase,number and special character): ")
        conditions = [0, 0, 0, 0]
```

```
        for i in password:
            if i.isupper():
                conditions[0] = 1
            elif 33 <= ord(i) <= 47:
                conditions[3] = 1
            elif 58 <= ord(i) <= 64:
                conditions[3] = 1
            elif i.islower():
                conditions[1] = 1
            elif i in '0123456789':
                conditions[2] = 1
        for i in range(len(conditions)):
            if conditions[i] != 1 and i == 0:
                print("Please include an uppercase character!")
                i = 1
                break
            elif conditions[i] != 1 and i == 1:
                print("Please include a lowercase character!")
                i = 1
                break
            elif conditions[i] != 1 and i == 2:
                print("Please include a number!")
                i = 1
                break
            elif conditions[i] != 1 and i == 3:
                print("Please include a special character!")
                i = 1
                break
        if i == 1:
            continue
        else:
            break
    while True:
        repass = input("Please Re-Enter your password: ")
        if repass == password:
            all_u_data = []
            while True:
                try:
                    chck_data = pickle.load(f)
                    all_u_data.append(chck_data)
                except:
                    break
            for i in all_u_data:
                if all_u_data[i][0] == phoneno:
                    print("Account with given phone number
already exists!")
                    entersite()
```

```
                else:
                    break
                break
        else:
            print("Passwords do not match")
            continue
        break
    bytephonenum = bytes(phoneno, 'utf-8')
    encrypphonenum = key.encrypt(bytephonenum)
    encrypphonenum = str(encrypphonenum, 'utf-8')
    bytepassw = bytes(password, 'utf-8')
    encryppassw = key.encrypt(bytepassw)
    encryppassw = str(encryppassw, 'utf-8')
    w.writerow([encrypphonenum, encryppassw])
    f.close()
    print("Account has been created, Login to continue")
    login()


# ALLOWS THE USER TO LOGIN BASED ON PREVIOUSLY STORED USER DETAILS
def login():
    f = open('UserData.csv', 'r')
    global phoneno
    global password
    phoneno = input("Enter Phone Number: ")
    password = input("Enter Password: ")
    r = csv.reader(f)
    all_u_data = list(r)
    loginorno = 0
    for i, j in all_u_data:
        i = i.lstrip("b'")
        i = i.rstrip("'")
        j = j.lstrip("b'")
        j = j.rstrip("'")
        if str(key.decrypt(bytes(i, 'utf-8')), 'utf-8') ==
phoneno and str(key.decrypt(bytes(j, 'utf-8')),

'utf-8') == password:
            print("Signing In", end='')
            y = random.randint(2,6)
            for i in range(y):
                time.sleep(0.5)
                print('.', end='')
                f.close()
            print("Successfully logged In!")
            loginorno = 1
```

```
    if loginorno == 0:
        time.sleep(1.5)
        print("Invalid Credentials!")
        entersite()


# VIEW USER INFO
def viewinfo():
    print("Phone Number:", phoneno)
    print("Password:", password)


# VIEW PREVIOUS ORDERS BASED ON RESTAURANT CHOSEN
def viewords(phoneno, restchoice):
    yorn = input("Would you like to view your past orders from
this restaurant?(Y/N)")
    if yorn.lower() == 'y':
        phstr = str(phoneno) + '.dat'
        try:
            f = open(phstr, 'rb')
            pastords = []
            while True:
                try:
                    data = pickle.load(f)
                    pastords.append(data)
                except:
                    break
            f.close()
            sno = 1
            checknum = 0
            for i in range(len(pastords)):
                if pastords[i][2] == restchoice:
                    print("Order Placed on", pastords[i][1],
"from", pastords[i][2])
                    checknum = 1
                    order = PrettyTable(pastords[i][3][0])
                    for j in pastords[i][3]:
                        if type(j[0]) == int:
                            order.add_row(j)
                    print(order)
            if checknum == 0:
                print("You have not placed any orders from this
restaurant!")
                time.sleep(2)
                return 0
            return 1
        except:
```

```
            print("You have not placed any orders from this
restaurant!")
            time.sleep(2)
            return 0


# TO GET DATA FOR EACH RESTAURANT FROM A CSV FILE
def getdata():
    f = open('data.csv', 'r')
    r = csv.reader(f)
    data = list(r)
    d1 = {}
    global ratingdict
    ratingdict = {}
    f.close()
    f = open("rateavg.csv", "r")
    rateavg = csv.reader(f)
    rateavg = list(rateavg)
    for i in rateavg:
        if i != []:
            if i[1] != '':
                roundavg = round(Decimal(i[1]), 1)
                ratingdict[i[0]] = [roundavg, i[-1]]
            elif i[1] == '':
                roundavg = 0
                ratingdict[i[0]] = [roundavg, i[-1]]
    for i in data:
        if i == []:
            data.remove(i)
    for i in data:  # To create a dictionary----> {'Restaurant
Name1':[[Food Name1,Price1],[Food Name2,Price2]],'Restaurant
Name2':[[Food Name1,Price1],[Food Name2,Price2]]}
        if len(i) == 1:
            l1 = []
            restau = i[0]
            d1[restau] = l1
        elif len(i) != 1:
            l1.append(i)
    for i in d1:
        if i not in ratingdict:
            ratingdict[i] = [0, '0']
    return d1



# TO GET THE LOCATION OF EACH RESTAURANT
def getrestloc():
```

```
    f = open("restloc.csv", newline='')
    r = csv.reader(f)
    data = list(r)
    restlocdata = {}
    for i in data:
        restlocdata[(i[0])] = i[-1]
    return restlocdata


# TO FIND THE AVERAGE PRICE OF EACH RESTAURANT BASED ON THEIR
MENU
def averrestau(restdict):
    lowprice = ('a', 1000000000000000000000000000000000000000)
    averres = []
    for i in restdict:
        menu = restdict[i]
        price = []
        for items in menu:
            itemprice = float(items[-1])
            price.append(itemprice)
        sumprices = sum(price)
        average = round(Decimal(sumprices / len(price)), 1)
        averres.append((i, average))
    return averres


# TO DISPLAY THE DETAILS OF EACH RESTAURANT
def dispavg(averrest, restdict, locdata):
    from math import ceil
    myTable = PrettyTable(["Number", "Restaurant Name", "Average
Price", "Rating", "Number of Ratings", "Location"])
    print("Choose a restaurant using the numbers to order from:")
    locations = list(locdata.keys())
    restlist = []
    for i in range(len(averrest)):
        if ratingdict[averrest[i][0]][-1] == '':
            myTable.add_row(
                [i + 1, averrest[i][0], averrest[i][1],
ratingdict[averrest[i][0]][0], 0, locdata[locations[i]]])
            restlist.append(averrest[i][0])
        else:
            myTable.add_row(
                [i + 1, averrest[i][0], averrest[i][1],
ratingdict[averrest[i][0]][0], ratingdict[averrest[i][0]][-1],
                 locdata[locations[i]]])
            restlist.append(averrest[i][0])
    print(myTable)
```

```
    usersort = input("Would you like to sort this table(Y/N):")
    if usersort.lower() == "y":
        print('''Sort by:
        1. Restaurant Name
        2. Average Price
        3.Rating
        4.Location:'''))
        Typesort = int(input("How Would you like to sort the
table(Enter Number): "))
        if typesort == 1:
            print(myTable.get_string(sortby="Restaurant Name"))
        elif typesort == 2:
            print(myTable.get_string(sortby="Average Price"))
        elif typesort == 3:
            print(myTable.get_string(sortby="Rating",
reversesort=True))
        elif typesort == 4:
            print(myTable.get_string(sortby="Location"))
    while True:
        restnum = int(input("Enter which restaurant you would
like to choose:"))
        if (restnum > 0 and restnum <= len(restlist)) and
type(restnum) == int:
            menu = restdict[restlist[restnum - 1]]
            break
        else:
            print("Enter Valid Restaurant Number!")
            continue
    restchoice = restlist[restnum - 1]
    if viewords(phoneno, restchoice):
        print("Continuing in 10 seconds!")
        time.sleep(10)
    myTable2 = PrettyTable(["Number", "Dishes", "Veg/Non Veg",
"Price"])
    n = 1
    for i in menu:
        myTable2.add_row([n, i[0], i[1], i[-1]])
        n += 1
    print(myTable2)
    return restlist[restnum - 1]


# TO CREATE THE CART OF THE USER
def addtocart(restdict):
    cart = {}
    i = 0
    while True:
```

```
        if i == 0:
            global restchoice
            restchoice = dispavg(averrest, restdict,
getrestloc())
            menu = restdict[restchoice]
            while True:
                foodchoice = int(
                    input("Enter Item Number of food item you
would like to add: "))
                if foodchoice > 0 and foodchoice <= len(menu):
                    break
                else:
                    print("Enter Valid Food Item Number!")
            while True:
                quantity = int(input("Enter quantity you would
like to order: "))
                if quantity > 0 and quantity < 50:
                    break
                elif quantity > 50:
                    print("The required quantity of food is not
available")
                else:
                    print("Enter a Valid Amount!")
            i += 1
        else:
            foodchoice = int(
                input("Enter Item Number of food item you would
like to add: "))
            quantity = int(input("Enter quantity you would like
to order: "))
            menu = restdict[restchoice]
        for items in menu:
            if items[0] == restdict[restchoice][foodchoice -
1][0]:
                itemprice = int(items[-1])
                price = itemprice
        for i in restdict:
            for j in range(len(restdict[restchoice])):
                if i == restchoice and
restdict[restchoice][foodchoice - 1][0] not in list(cart.keys()):
                    cart[restdict[i][foodchoice - 1][0]] =
(restchoice, price, quantity)
                    break
                elif i == restchoice and
restdict[restchoice][j][0] in list(cart.keys()):
                    quan = cart[restdict[restchoice][foodchoice -
1][0]][-1] + quantity
```

```
                    cart[restdict[restchoice][foodchoice - 1][0]]
= (restchoice, price, quan)
                    break
        yorn = input("Would you like to add another item(y/n)? ")
        if yorn.lower() == 'n':
            break
    return cart


# TO DISPLAY THE BILL BASED ON THE CART OF THE USER
def viewcart(cart):
    from math import ceil
    order = [["S.No", "Item", "Quantity", "Price"]]
    bill = PrettyTable(["S.No", "Item", "Quantity", "Price"])
    total = 0
    serialno = 1
    for i in cart:
        bill.add_row([serialno, i, cart[i][-1], (cart[i][1] *
cart[i][-1])])
        order.append([serialno, i, cart[i][-1], (cart[i][1] *
cart[i][-1])])
        total += ((cart[i][1]) * (cart[i][-1]))
        serialno += 1
    print(bill)
    print("Total = Rs.", total)
    print("GST = 18%")
    print("Grand Total = Rs.", ceil(total + total * 0.18), )
    phstr = str(phoneno) + '.dat'
    time = dt.datetime.now()
    f = open(phstr, 'ab')
    pickle.dump([phoneno, time, restchoice, order], f)
    f.close()


#FUNCTION TO FETCH NUMBER OF RATINGS A RESTAURANT HAS
def ratingscreate():
    ratingslist = []
    for i in restdict:
        ratelisele = [i, []]
        ratingslist.append(ratelisele)
        ratefile = open("rating.csv", "w")
        w = csv.writer(ratefile)
    for i in ratingslist:
        w.writerow(i)
    ratefile.close()
    with open("rating.csv") as f:
        r = csv.reader(f)
```

```
        l = list(r)
        no_ratings = []
        for i in l:
            no_ratings.append(i[-1])
    return no_ratings


# TO CREATE A FILE WITH THE AVERAGE RATING OF EACH RESTAURANT
def ratingavgcreate():
    ratingavglist = []
    for i in restdict:
        ratelisele = [i, '']
        ratingavglist.append(ratelisele)
        rateavgfile = open("rateavg.csv", "w")
        w = csv.writer(rateavgfile)
    for i in ratingavglist:
        w.writerow(i)
    rateavgfile.close()


# TO CREATE A FILE WITH THE RATING OF EACH RESTAURANT
def rating():
    l1 = list(cart.values())
    restname = l1[0][0]
    print("Thank You for making a purchase from", restname)
    yorn = input("Would you like to add a rating for the
following restaurant(Y/N)?")
    while True:
        if yorn.lower() == "y":
            rating = input("Enter your rating for the following
restaurant(_/5):")
            if float(rating) >= 0 and float(rating) <= 5:
                print("Your Feedback has been recorded!")
                ratefile = open("rating.csv",
                                "r")
                r = csv.reader(ratefile)
                ratings = list(r)
                ratefile.close()
                for i in ratings:
                    if i != []:
                        if i[0] == restname:
                            oldratings = i[1]
                            i[1] = oldratings + rating + ';'
                ratefile = open("rating.csv", "w")
                w1 = csv.writer(ratefile)
                for i in ratings:
                    if i != []:
```

```
                        w1.writerow(i)
                ratefile.close()
                break
            else:
                print("Please Enter Valid Rating!")
                continue
        else:
            print("Enjoy your food!")
            break


# TO UPDATE THE FILE BASED ON THE RATING PROVIDED BY THE USER
def ratingsavg():
    ratefile = open("rating.csv", "r")
    allrates = csv.reader(ratefile)
    allrates = list(allrates)
    ratefile.close()
    rateavgfile = open("rateavg.csv",
                       "r")
    r = csv.reader(rateavgfile)
    ratings = list(r)
    ratefile.close()
    rateavgfile = open("rateavg.csv", "w")
    w2 = csv.writer(rateavgfile)
    for i in allrates:
        if i != []:
            try:
                values = i[1].split(';')
                for j in range(len(values)):
                    if values[j] != '':
                        values[j] = float(values[j])
                    elif values[j] == '':
                        values.remove('')
                rateavg = sum(values) / len(values)
                l1 = [i[0], rateavg, len(values)]
                w2.writerow(l1)
            except:
                w2.writerow([i[0], 0, 0])


# TO DISPLAY A MENU TO ASK THE USER WHAT THEY WANT TO DO
def menu():
    print('''What would you like to do today?
        1. Check user info
        2. Order food
        3.Exit:''')
    userchoice = int(input("Enter what you would like to do : "))
```

```
    if userchoice == 1:
        viewinfo()
        menu()
    elif userchoice == 2:
        global restdict
        restdict = getdata()
        global averrest
        averrest = averrestau(restdict)
        global cart
        cart = addtocart(restdict)
        viewcart(cart)
        ratefile = open("rating.csv", "r")
        ratelist = csv.reader(ratefile)
        ratelist = list(ratelist)
        if ratelist == []:
            ratingscreate()
        rating()
        ratingavgcreate()
        ratingsavg()
    elif choice == 3:
        print("Thank You, Have a nice day!")


entersite()
menu()
```

Sample Output

#Logging in to the application

```
Welcome to Fast Eats!
    1.Sign up
    2.Login
    3.Exit
What would you like to do: 1
Enter Phone number: 8432504059
Enter password(Include an uppercase,lowercase,number and special
character): P@ss123
Please Re-Enter your password: P@ss123
Account has been created, Login to continue
Enter Phone Number: 8432504059
Enter Password: P@ss123
Signing In……Successfully logged In!
```

#Checking Account Details

```
What would you like to do today?
        1. Check user info
        2. Order food
        3.Exit
Enter what you would like to do :1
Phone Number: 8432504059
Password: P@ss123
```

#Ordering Food

```
What would you like to do today?
        1. Check user info
        2. Order food
        3.Exit
Enter what you would like to do :2
Choose a restaurant using the numbers to order from:
```

Number	Restaurant Name	Average Price	Rating	Number of Ratings	Location
1	Geetham Veg Restaurant	95.5	4.1	6	T Nagar
2	Saravana Bhavan	76.5	4.0	9	KK Nagar
3	A2B Veg	100.6	4.2	9	Ashok Nagar
4	Shree Mithai	78.3	4.4	9	Ashok Nagar
5	Manoj Bhavan Veg Restaurant	157.3	3.4	9	Ashok Nagar
6	Burger King	248.5	4.1	10	Ashok Nagar
7	KFC	333.9	4.0	4	Ashok Nagar
8	Subway	225.6	4.0	10	Valasaravakkam
9	Domino's Pizza	599.0	10.3	6	K.K Nagar
10	Oven Story Pizza	378.5	4.1	11	Vadapalani
11	Pizza Hut	345.6	4.0	13	Ashok Nagar
12	The Bowl Company	206.5	4.0	9	Vadapalani
13	Cafe De Paris	394.4	3.8	11	Alwarpet
14	Krispy Kreme	156.5	3.7	9	Thousand Lights
15	Writer's Cafe	205.0	3.9	11	Egmore
16	Roll Baby Roll	131.2	4.3	11	Nungambakkam
17	The Sandwich Shop	165.0	4.0	11	Kodambakkam
18	Sigree	387.5	3.5	11	Anna Nagar
19	Chai Kings	214.9	3.8	11	Egmore
20	Cake Works	538.5	3.6	11	Choolaimedu

#Sorting the Restaurants

Number	Restaurant Name	Average Price	Rating	Number of Ratings	Location
1	Geetham Veg Restaurant	95.5	4.1	6	T Nagar
2	Saravana Bhavan	76.5	4.0	9	KK Nagar
3	A2B Veg	100.6	4.2	9	Ashok Nagar
4	Shree Mithai	78.3	4.4	9	Ashok Nagar
5	Manoj Bhavan Veg Restaurant	157.3	3.4	9	Ashok Nagar
6	Burger King	248.5	4.1	10	Ashok Nagar
7	KFC	333.9	4.0	4	Ashok Nagar
8	Subway	225.6	4.0	10	Valasaravakkam
9	Domino's Pizza	599.0	10.3	6	K.K Nagar
10	Oven Story Pizza	378.5	4.1	11	Vadapalani
11	Pizza Hut	345.6	4.0	13	Ashok Nagar
12	The Bowl Company	206.5	4.0	9	Vadapalani
13	Cafe De Paris	394.4	3.8	11	Alwarpet
14	Krispy Kreme	156.5	3.7	9	Thousand Lights
15	Writer's Cafe	205.0	3.9	11	Egmore
16	Roll Baby Roll	131.2	4.3	11	Nungambakkam
17	The Sandwich Shop	165.0	4.0	11	Kodambakkam
18	Sigree	387.5	3.5	11	Anna Nagar
19	Chai Kings	214.9	3.8	11	Egmore
20	Cake Works	538.5	3.6	11	Choolaimedu

Would you like to sort this table(Y/N):Y

-Sorting By Name:

Sort by:

1. Restaurant Name
2. Average Price
3.Rating
4.Location

How Would you like to sort the table(Enter Number): 1

Number	Restaurant Name	Average Price	Rating	Number of Ratings	Location
3	A2B Veg	100.6	4.2	9	Ashok Nagar
6	Burger King	248.5	4.1	10	Ashok Nagar
13	Cafe De Paris	394.4	3.8	11	Alwarpet
20	Cake Works	538.5	3.6	11	Choolaimedu
19	Chai Kings	214.9	3.8	11	Egmore
9	Domino's Pizza	599.0	10.3	6	K.K Nagar
1	Geetham Veg Restaurant	95.5	4.1	6	T Nagar
7	KFC	333.9	4.0	4	Ashok Nagar
14	Krispy Kreme	156.5	3.7	9	Thousand Lights
5	Manoj Bhavan Veg Restaurant	157.3	3.4	9	Ashok Nagar
10	Oven Story Pizza	378.5	4.1	11	Vadapalani
11	Pizza Hut	345.6	4.0	13	Ashok Nagar
16	Roll Baby Roll	131.2	4.3	11	Nungambakkam
2	Saravana Bhavan	76.5	4.0	9	KK Nagar
4	Shree Mithai	78.3	4.4	9	Ashok Nagar
18	Sigree	387.5	3.5	11	Anna Nagar
8	Subway	225.6	4.0	10	Valasaravakkam
12	The Bowl Company	206.5	4.0	9	Vadapalani
17	The Sandwich Shop	165.0	4.0	11	Kodambakkam
15	Writer's Cafe	205.0	3.9	11	Egmore

-Sorting by Average Price:

Sort by:
1. Restaurant Name
2. Average Price
3.Rating
4.Location

How Would you like to sort the table(Enter Number): 2

Number	Restaurant Name	Average Price	Rating	Number of Ratings	Location
2	Saravana Bhavan	76.5	4.0	9	KK Nagar
4	Shree Mithai	78.3	4.4	9	Ashok Nagar
1	Geetham Veg Restaurant	95.5	4.1	6	T Nagar
3	A2B Veg	100.6	4.2	9	Ashok Nagar
16	Roll Baby Roll	131.2	4.3	11	Nungambakkam
14	Krispy Kreme	156.5	3.7	9	Thousand Lights
5	Manoj Bhavan Veg Restaurant	157.3	3.4	9	Ashok Nagar
17	The Sandwich Shop	165.0	4.0	11	Kodambakkam
15	Writer's Cafe	205.0	3.9	11	Egmore
12	The Bowl Company	206.5	4.0	9	Vadapalani
19	Chai Kings	214.9	3.8	11	Egmore
8	Subway	225.6	4.0	10	Valasaravakkam
6	Burger King	248.5	4.1	10	Ashok Nagar
7	KFC	333.9	4.0	4	Ashok Nagar
11	Pizza Hut	345.6	4.0	13	Ashok Nagar
10	Oven Story Pizza	378.5	4.1	11	Vadapalani
18	Sigree	387.5	3.5	11	Anna Nagar
13	Cafe De Paris	394.4	3.8	11	Alwarpet
20	Cake Works	538.5	3.6	11	Choolaimedu
9	Domino's Pizza	599.0	10.3	6	K.K Nagar

-Sorting By Rating:

Sort by:
1. Restaurant Name
2. Average Price
3.Rating
4.Location

How Would you like to sort the table(Enter Number): 3

Number	Restaurant Name	Average Price	Rating	Number of Ratings	Location
9	Domino's Pizza	599.0	10.3	6	K.K Nagar
4	Shree Mithai	78.3	4.4	9	Ashok Nagar
16	Roll Baby Roll	131.2	4.3	11	Nungambakkam
3	A2B Veg	100.6	4.2	9	Ashok Nagar
10	Oven Story Pizza	378.5	4.1	11	Vadapalani
6	Burger King	248.5	4.1	10	Ashok Nagar
1	Geetham Veg Restaurant	95.5	4.1	6	T Nagar
17	The Sandwich Shop	165.0	4.0	11	Kodambakkam
12	The Bowl Company	206.5	4.0	9	Vadapalani
11	Pizza Hut	345.6	4.0	13	Ashok Nagar
8	Subway	225.6	4.0	10	Valasaravakkam
7	KFC	333.9	4.0	4	Ashok Nagar
2	Saravana Bhavan	76.5	4.0	9	KK Nagar
15	Writer's Cafe	205.0	3.9	11	Egmore
19	Chai Kings	214.9	3.8	11	Egmore
13	Cafe De Paris	394.4	3.8	11	Alwarpet
14	Krispy Kreme	156.5	3.7	9	Thousand Lights
20	Cake Works	538.5	3.6	11	Choolaimedu
18	Sigree	387.5	3.5	11	Anna Nagar
5	Manoj Bhavan Veg Restaurant	157.3	3.4	9	Ashok Nagar

-Sorting By Location:

Sort by:
1. Restaurant Name
2. Average Price
3.Rating
4.Location

How Would you like to sort the table(Enter Number): 4

Number	Restaurant Name	Average Price	Rating	Number of Ratings	Location
13	Cafe De Paris	394.4	3.8	11	Alwarpet
18	Sigree	387.5	3.5	11	Anna Nagar
3	A2B Veg	100.6	4.2	9	Ashok Nagar
4	Shree Mithai	78.3	4.4	9	Ashok Nagar
5	Manoj Bhavan Veg Restaurant	157.3	3.4	9	Ashok Nagar
6	Burger King	248.5	4.1	10	Ashok Nagar
7	KFC	333.9	4.0	4	Ashok Nagar
11	Pizza Hut	345.6	4.0	13	Ashok Nagar
20	Cake Works	538.5	3.6	11	Choolaimedu
15	Writer's Cafe	205.0	3.9	11	Egmore
19	Chai Kings	214.9	3.8	11	Egmore
9	Domino's Pizza	599.0	10.3	6	K.K Nagar
2	Saravana Bhavan	76.5	4.0	9	KK Nagar
17	The Sandwich Shop	165.0	4.0	11	Kodambakkam
16	Roll Baby Roll	131.2	4.3	11	Nungambakkam
1	Geetham Veg Restaurant	95.5	4.1	6	T Nagar
14	Krispy Kreme	156.5	3.7	9	Thousand Lights
10	Oven Story Pizza	378.5	4.1	11	Vadapalani
12	The Bowl Company	206.5	4.0	9	Vadapalani
8	Subway	225.6	4.0	10	Valasaravakkam

#Viewing Past Orders:

Enter which restaurant you would like to choose:3
Would you like to view your past orders from this restaurant?(Y/N)y
Order Placed on 2022-12-10 18:40:00.183847 from Shree Mithai

```
+------+--------------+----------+-------+
| S.No |     Item     | Quantity | Price |
+------+--------------+----------+-------+
|  1   |  Bhel Poori  |    3     |  240  |
|  2   |  Pav Bhaji   |    4     |  500  |
|  3   | Samosa Chaat |    1     |   95  |
+------+--------------+----------+-------+
Order Placed on 2022-12-10 18:44:25.821757 from Shree Mithai
+------+--------------+----------+-------+
| S.No |     Item     | Quantity | Price |
+------+--------------+----------+-------+
|  1   | Samosa Chaat |    4     |  380  |
|  2   |  Bhel Poori  |    2     |  160  |
+------+--------------+----------+-------+
Continuing in 10 seconds!
```

#Ordering from a restaurant

```
Enter which restaurant you would like to choose:1

+--------+---------+-------------+-------+
| Number |  Dishes | Veg/Non Veg | Price |
+--------+---------+-------------+-------+
|   1    |   Idli  |      50     |   50  |
|   2    |   Dosa  |      70     |   70  |
|   3    |  Coffee |      45     |   45  |
|   4    |   Rice  |     100     |  100  |
|   5    | Chapati |      80     |   80  |
+--------+---------+-------------+-------+
Enter Item Number of food item you would like to add: 1
Enter quantity you would like to order: 5
Would you like to add another item(y/n)? y
Enter Item Number of food item you would like to add: 2
Enter quantity you would like to order: 3
Would you like to add another item(y/n)? y
Enter Item Number of food item you would like to add: 3
Enter quantity you would like to order: 3
Would you like to add another item(y/n)? n
+------+--------+----------+-------+
| S.No |  Item  | Quantity | Price |
+------+--------+----------+-------+
|  1   |  Idli  |    5     |  250  |
|  2   |  Dosa  |    3     |  210  |
|  3   | Coffee |    3     |  135  |
+------+--------+----------+-------+
Total = Rs. 595
```

```
GST = 18%
Grand Total = Rs. 703
Thank You for making a purchase from Geetham Veg Restaurant
```

#Rating A Restaurant:

```
Would you like to add a rating for the following
restaurant(Y/N)?y
Enter your rating for the following restaurant(_/5):3
Your Feedback has been recorded!
```

Challenges, Limitations and the Future

Challenges:

- Hard to Work with data stored in CSV as it is retrieved as string.
- Difficulty fetching user data for login function.
- Tough to handle lots of data sets.

Limitations:

- No limit to quantity of food that the user can purchase.
- Unable to predict delivery time as that would require gps integration.
- Limited Menu items and same menu throughout the day [menu doesn't change for breakfast, lunch or dinner].
- No special offers or deals currently.
- Datasets must be available on every device.
- Code cannot run every possible action user can take at once.
- Unable to simulate real time situations .
- Limited Knowledge about python-cloud integration.

To overcome these limitations we would ideally like to implement a cloud based server user interface where the restaurateur can update their menus and items based on real time. We would also like to add an option where someone could duplicate their previous order and then make changes to that. Partnering with more up and coming restaurants and local cafes to increase the number of options that the user has. We would also like to add a maximum deliverable distance threshold as some restaurants will not be able to deliver high quality food past a specific distance.

Adding city based restaurant list since different cities and localities has different restaurants.

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