**Restaurant Ordering/Rating System**

****

**Done by**

**A Pranav & Ashwin Reddy**

**Class 12 F1 February 2023**

**Bonafide Certificate**

(will be given by teachers–common for all)

**Acknowledgements**

(You may thank school management and other people who motivated and helped you in project work)

**Index**

|  |  |  |
| --- | --- | --- |
| S.No. | Topic | Page  Number |
| 1 | Introduction |  |
| 2 | Objective and Scope |  |
| 3 | System Design |  |
| 4 | List of Datasets and Storage units |  |
| 5 | List of Global variables and Functions |  |
| 6 | Source Code |  |
| 7 | Sample Output |  |
| 8 | Challenges, Limitations and the Future |  |
| 9 | Bibliography |  |

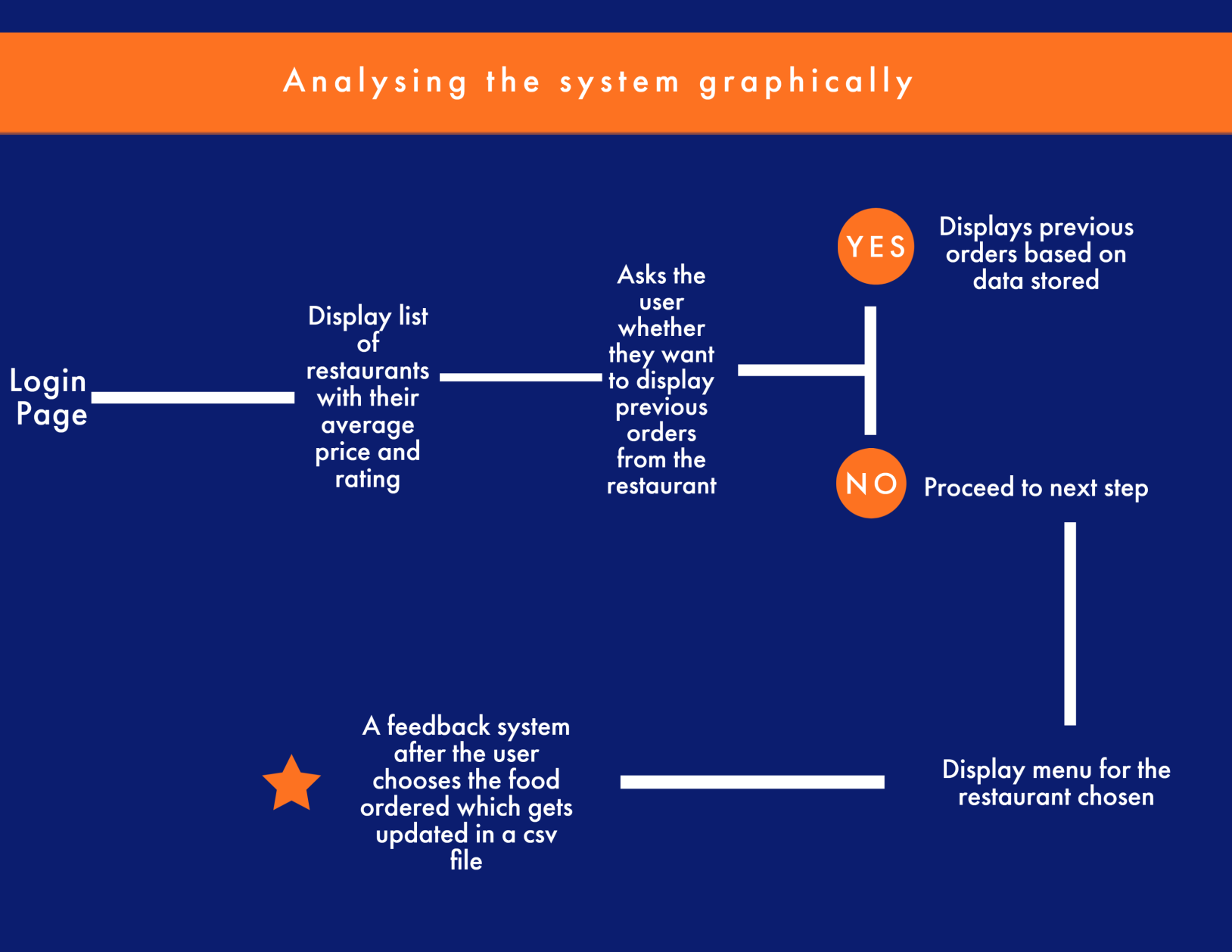
**Introduction**

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. We have developed an application where the user is able to carefully consider their choices from a wide variety of restaurants and place their orders all in one place. This will reduce the stress of searching, discussing and placing their order via telephone and still getting the wrong item. By removing the unnecessary human middle-man that so rightfully manages to mess up our orders everytime. We have created a platform where the order places is directly sent to the chefs that prepare your food, reducing the number of mistakes from the restaurants’ end. Our application allows for users to revisit their previous orders and find the dish that they enjoyed so much last time. 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**

(Aim/Objective of your project, Project Description and Scope of the Project)

**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) |
| order.csv | CSV File | Contains real time order  data of user |
| 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 |

**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 | Purpose |
| 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 averageprice 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 |
|  |  |  |
|  |  |  |
|  |  |  |

**Source Code**

(Code should be well documented.

Use Courier New, font size 12, 1.5 line spacing, black and white alone.)

**Sample Output**

( Screenshots demonstrating all the options in your project.)

**Challenges, Limitations and the Future**

(The Future  refers to any additional features that could be added to the project later.)

**Bibliography**

(Textbooks, reference books, links and other sources you’ve referenced that have helped in doing the project. Be specific -> “Google.com” cannot be a bibliography reference.)