PROJECT REPORT (FINAL REVIEW)

CSE2004 – DATABASE MANAGEMENT SYSTEM

TOPIC- Hotel Management System

Fall Semester 2020-21

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Abstract:

In our daily life, we can see many people in the Hotels who are waiting for a long time for getting their food. It is the most common problem faced by the people these days. Due to this kind of delay in time people might miss their flights, trains and sometimes even some important meetings which cause lots of loss to the individual. When people are new to an area then they won't be having any idea of the Hotels in his/her surroundings and what type of food will be served in that Hotel. Even we can find some situations where people will be waiting outside the Hotel for a table to be vacated. Sometimes while booking in a telephone there is a chance of misplacing the names of the customers which arises problems. By keeping these problems faced by every man in this modern civilization we generated an idea of creating an application which would solve all above stated problems. This idea has its own kind of perspective which wipes away the problems which are faced in hotels and creates an application where customers can browse and reserve the tables with just a few clicks.

Introduction:

Hotel Management System is a service primarily designed for the need of reserving tables at a particular Hotel before arriving at the Hotel. Notonly it will provide convenience to the users by decreasing the waiting time, it will also serve as a better platform for the Hotels to increase the scope of business. When the user uses the service, he will be directed to the Login page where he needs to fill the credentials along with the password. As soon as the authentication is done, list of all the Hotels will be displayed along with some necessary information like name, address, contact details etc. the user can choose the Hotel after that he will be asked in which slot, he needs to book the table. Thus, user can easily book the Hotel for the available timings. Later users can give the review of the Hotel which helps to make some priorities for later use.

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Proposed Methodology:

In proposed system we provide facility to customers to reserve tables for dining. At the same time this online reservation system will provide the Hotel owner to manage the bookings. Currently proposed system will be fast and easy to use. This system will be managed by:

- Python (Tkinter) in frontend for both customer and owner interface.

- My-SQL in backend for maintaining databases.

- Connecting SQL database using mysqlconnector module available in python Customer will be allowed to reserve table in a particular Hotel and to provide feedback of the Hotel.
  Admin will be allowed to add/remove Hotels and view the bookingsdone by the customers.
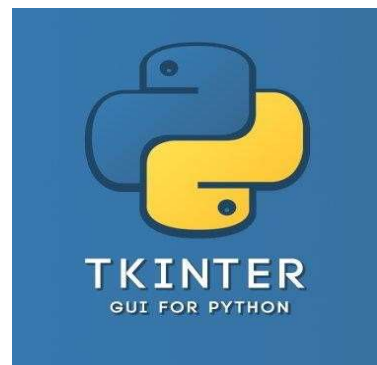
Existing methods and its disadvantages:

In manual system, everything depends upon paper and there is no automated system for keeping the records in Hotel. We realized that this paper-based system is easily vulnerable to get harmed because of several reasons and it leads to different problem i.e. waiters couldn't have arranged records of clients. Moreover,it prompts wastage of time and paper. For each little request we need to call the waiter for a number of times and it prompts some misconception from waiter side. So, we need to roll out some improvements in the current system to wipe out the above issues.
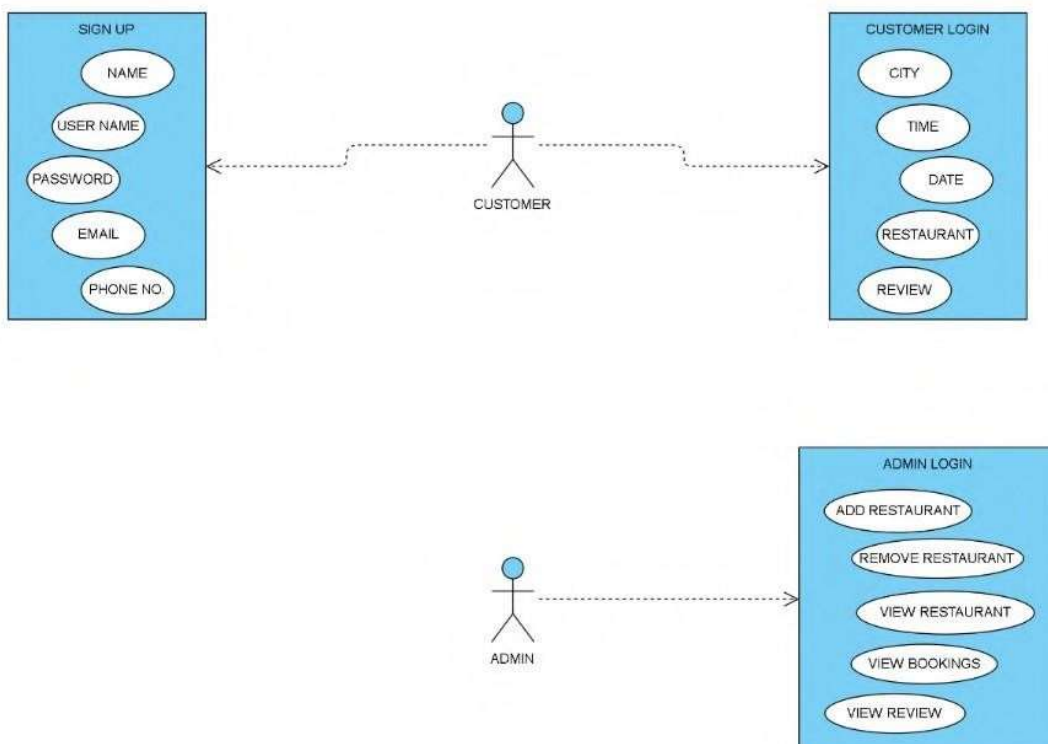
Advantages of Proposed system:

- Provides username and password to guarantee authorized access only.

- It saves client's time looking out for Hotels.

- It saves business assets and costs.

- During festive seasons, tables get booked shortly, in such cases clients can make advance booking for table at a Hotel.

- It discourages the involvement of third party or a middle man by providing a direct interface of customers to their service providers.
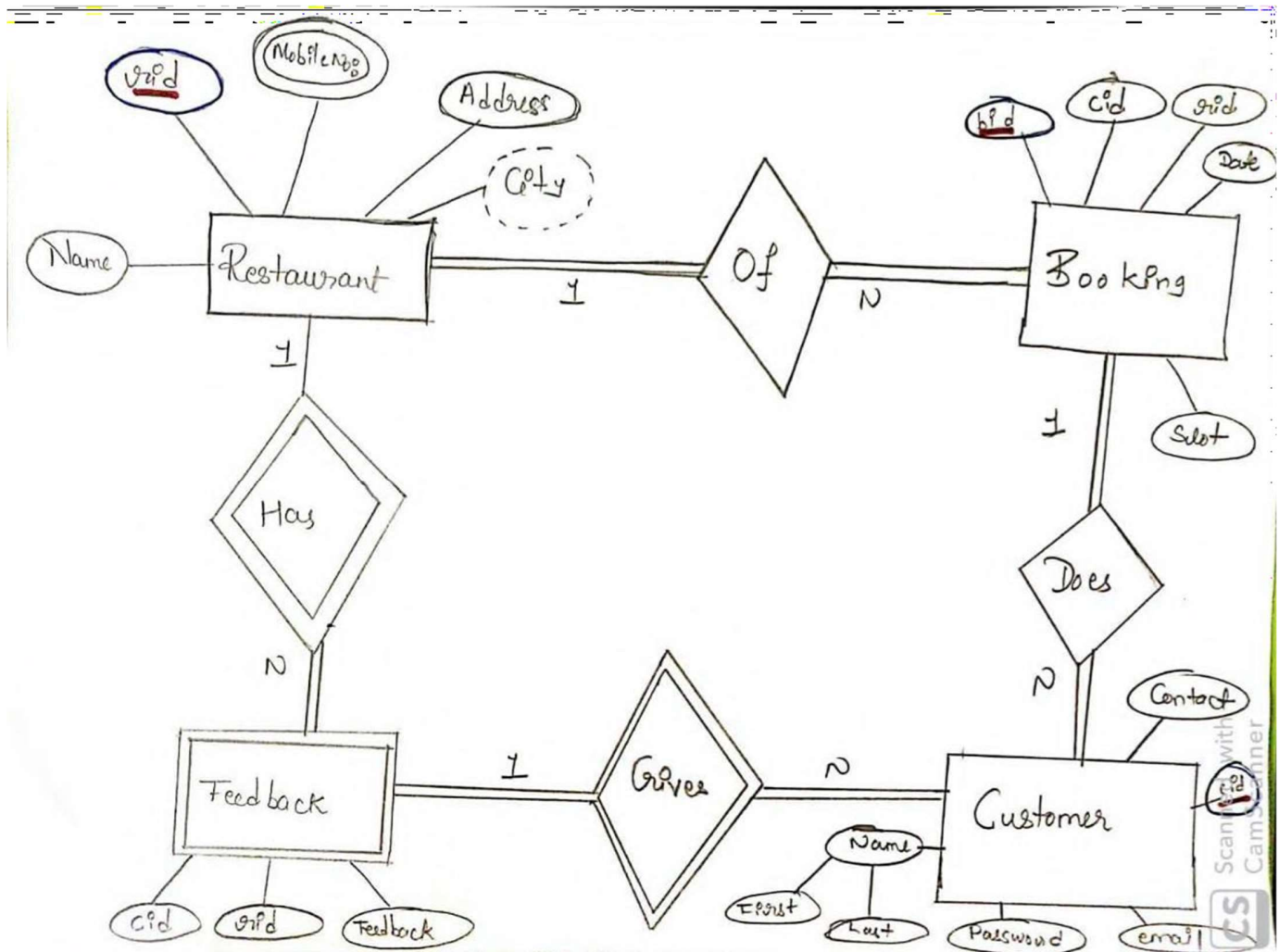
Disadvantages of Proposed system:

- No constraint on number of seat bookings that is customers can register even after the Hotel is completely booked.

- If an incorrect booking is done, the software doesn't show an error dialog box. Instead it just stands still.

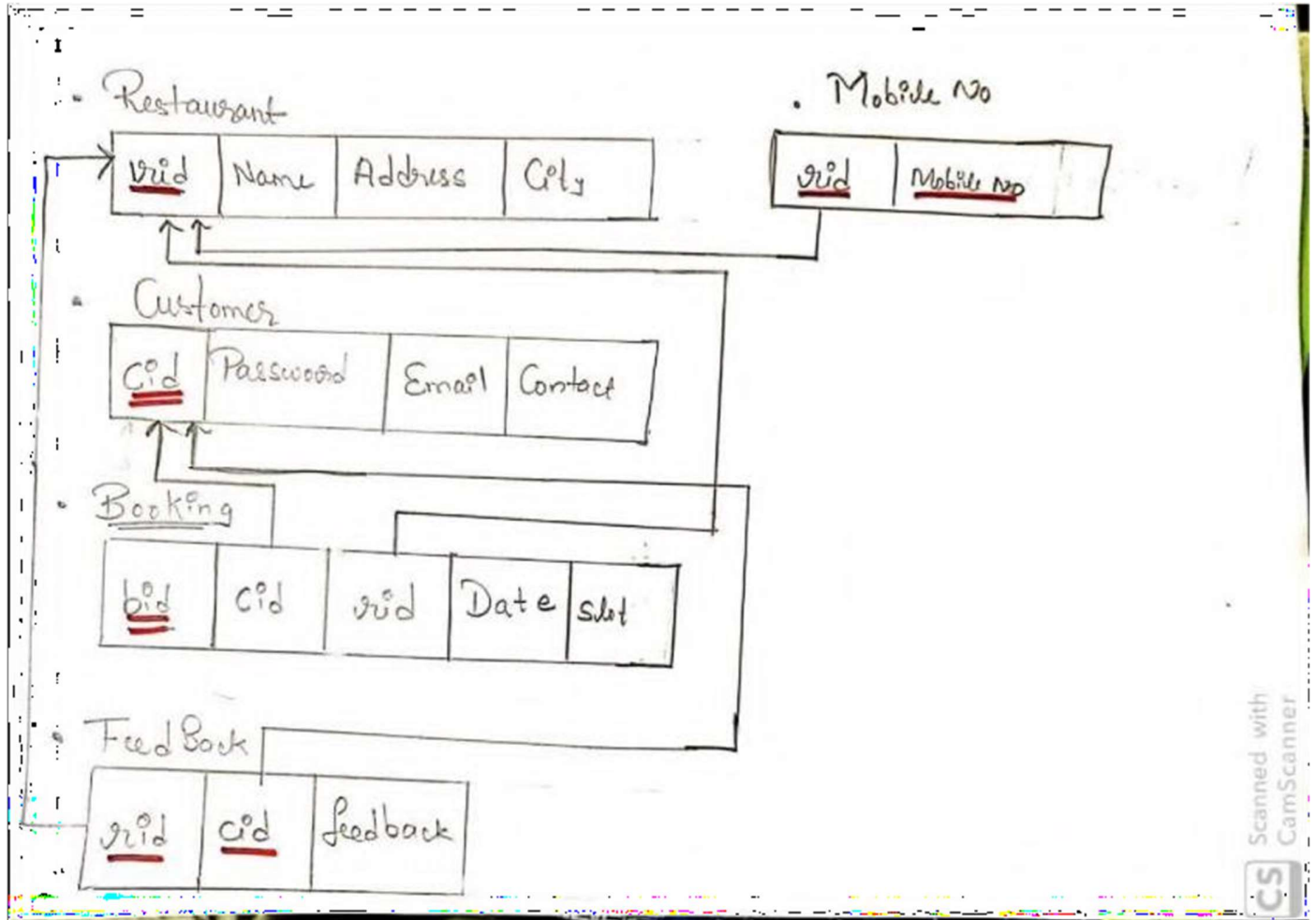- The password is not hidden (with *) while typing.

Block Diagram:

ER Diagram:

RELATIONAL SCHEMA:

Restaurant

vrid	Name	Address	City

Mobile No

vrid	Mobile No

Customer

Cid	Password	Email	Contact

Booking

bid	Cid	vrid	Date	slot

Feed Back

vrid	cid	feedback

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NORMALISATION:

NORMALISATION

Restaurant table:-

rid	Name	Address	City

2 NF form:-

Table 1 :- (rid, address, name)

Table2:- (address, city)

3 NF form:-

Table 1 :- (rid, address)

Table 2 :- (address, name)

Table 3:- (address, city)

Customer Table:-

cid	Password	Email	Contact

2 NF form:-

Table1:- cid, contact, Email

Table 2:- Password, Email

3NF form:-

Table1 :- cid, Email

Table 2:- Email, contact

Table3:- Password, Email

Booking Table :-

bid	cid	rid	date	slot

2NF form :-

Table 1 :- (cid, rid, date)

Table 2 :- (bid, date)

Table 3 :- (date, slot)

3NF form :-

Table 1 :- (cid, rid)

Table 2 :- (rid, date)

Table 3 :- (bid, date)

Table 4 :- (date, slot)

Feedback Table

rid	cid	feedback

2NF form :- Table 1 :- (rid, cid)

Table 2 :- (cid, feedback)

Tables and Constraints :

Table name: Hotel

ATTRIBUTE	DATA TYPE	CONSTRAINT
Rid	Int	Primary key
Name	varchar(20)	Not null
Address	varchar(20)	Not null
Mobile no	Int	Not null
City	varchar(20)	Not null

Table name: booking

ATTRIBUTE	DATA TYPE	CONSTRAINT
Bid	Int	Primary key
Cid	varchar(20)	Foreign key
Rid	Int	Foreign key
Date	Data	Not null
Slot	varchar(20)	Not null

Table name: customer

ATTRIBUTE	DATA TYPE	CONSTRAINT
Cid	varchar(20)	Primary key
Name	varchar(20)	Not null
Contact	Int	Not null
Email	varchar(20)	Not null
Password	varchar(20)	Not null

Table name: feedback

ATTRIBUTE	DATA TYPE	CONSTRAINT
Cid	varchar(20)	Foreign key
Rid	varchar(20)	Foreign key
Feedback	varchar(20)	Not null

Screenshots :
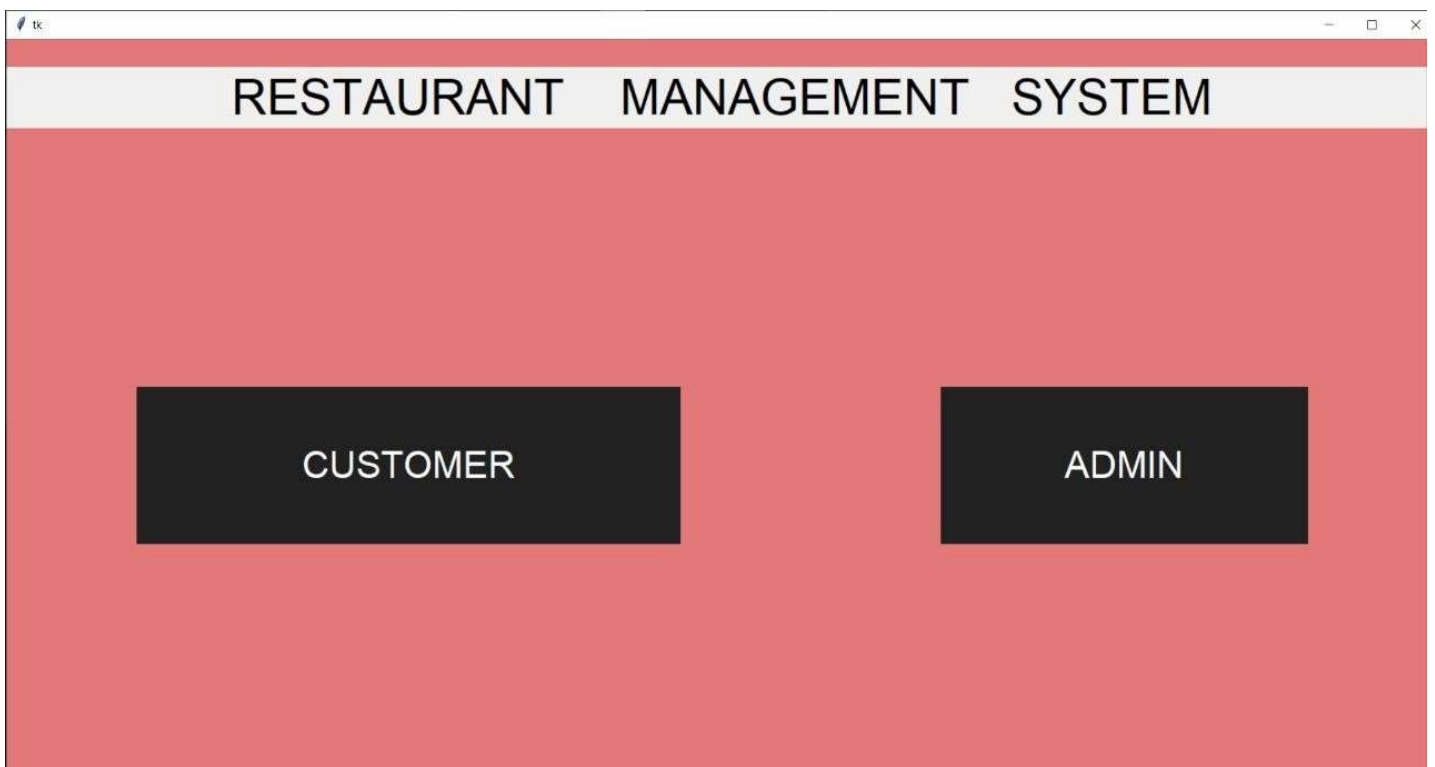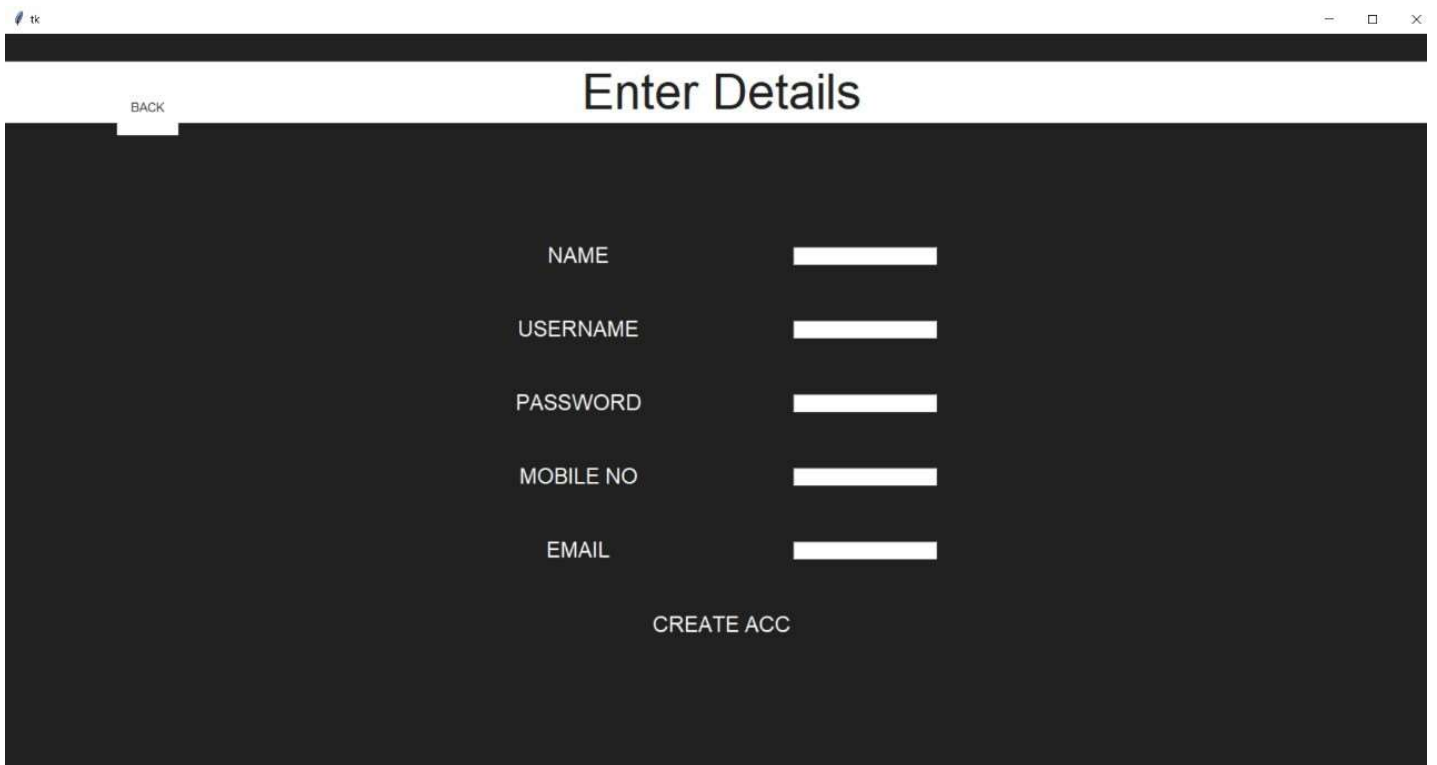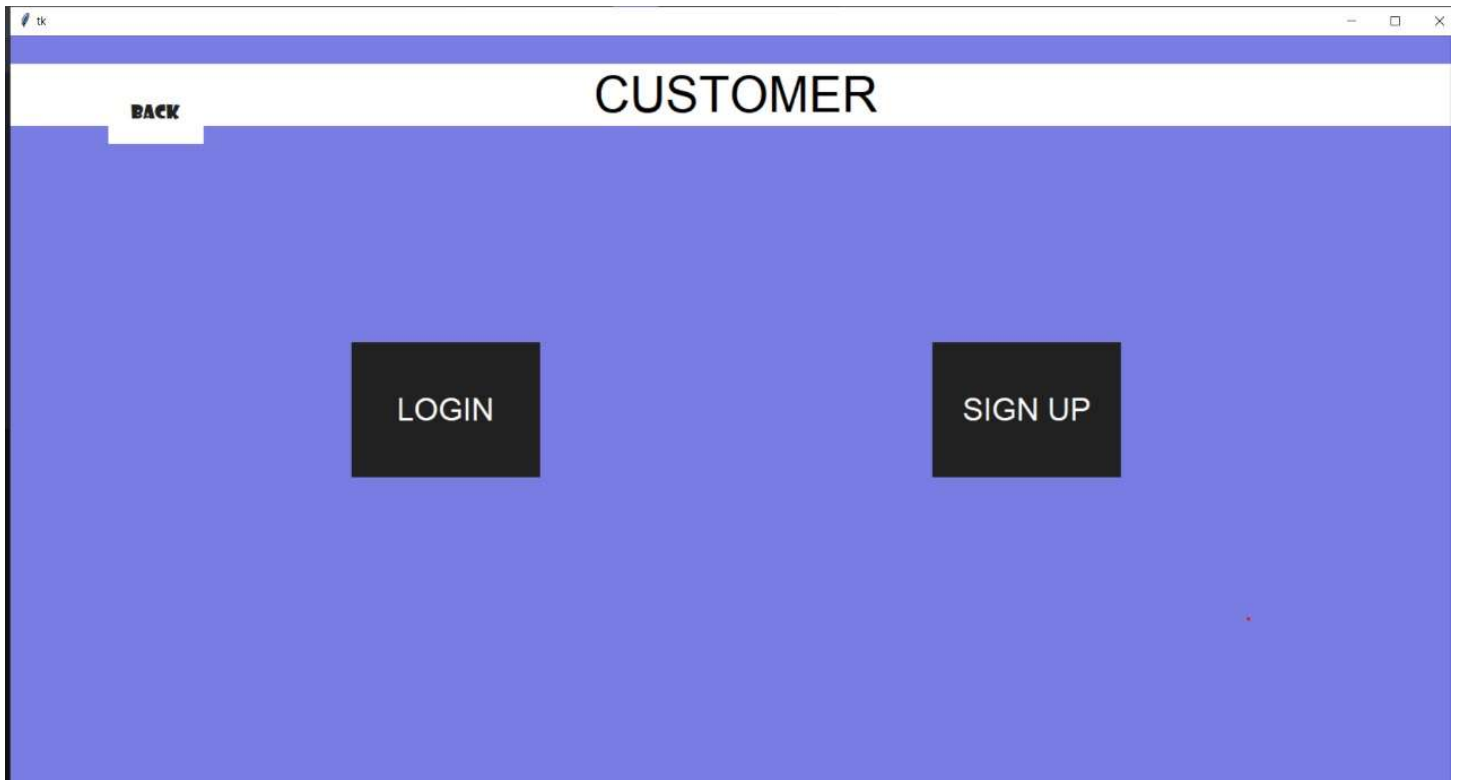
CUSTOMER

BACK

LOGIN

SIGN UP

Enter Details

BACK

NAME

USERNAME

PASSWORD

MOBILE NO

EMAIL

CREATE ACC

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Restaurant Details

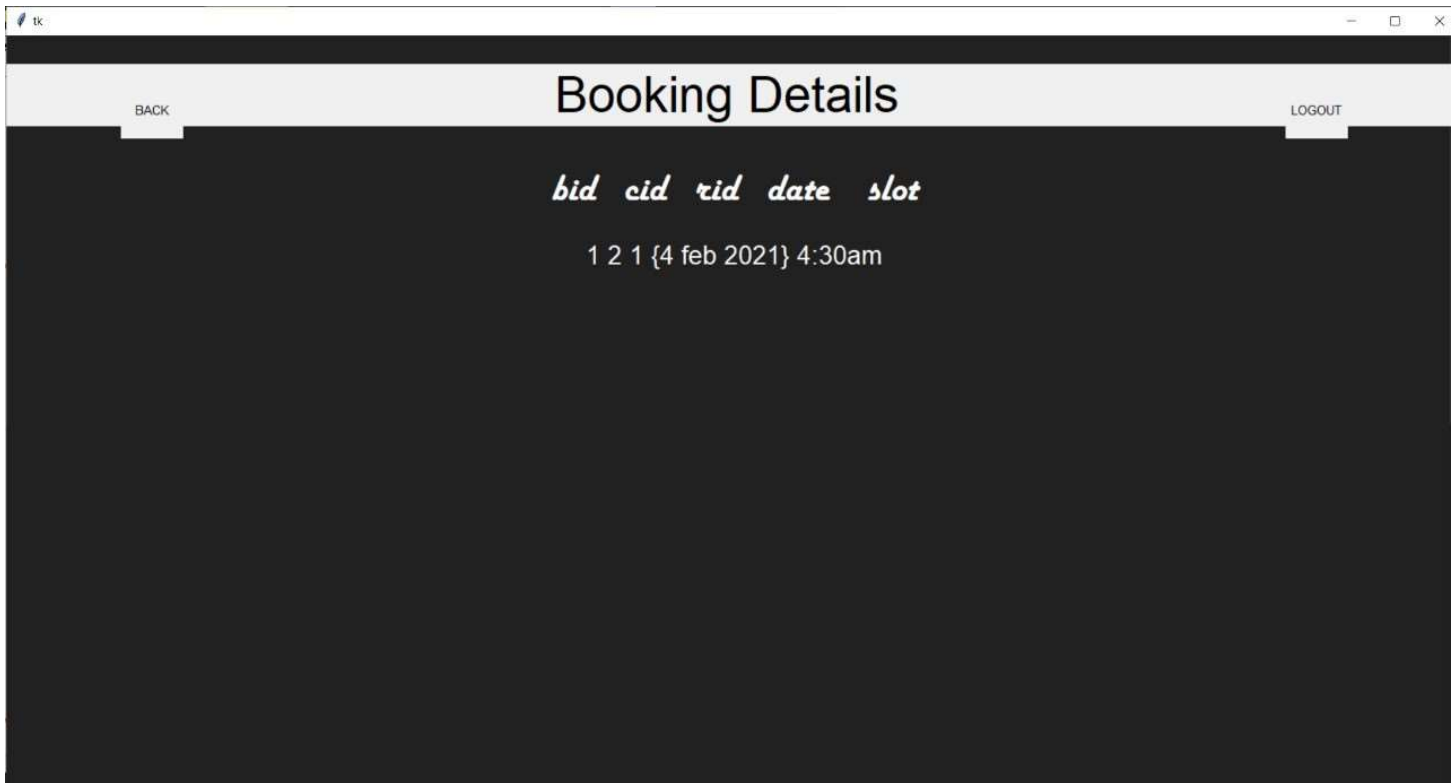Resaurant id

Name

Contact no

City

Complete address

confirm

View Restaurant

Rid   Name   Address   Mobile_no   City

1 taj 4,mumbai 1235 mumbai

2 mahal 4,lucknow 123445 lucknow

3 {mahal moti} 64,lucknow 123445 lucknoww

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Conclusion:

Most of the Hotels are booked manually, thus it increases the paperwork and becomes tedious to maintain the records. Also maintaining notices in the records increases the paperwork. Our application makes the service to book the Hotel efficiently and will save the precious time of the customer. In the Hotel perspective, it will decrease the workload, maximize the reservationsand make the Hotel accessible for 24/7 from anywhere in the world.

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Future Work:

- Including Hotel menu cards.

- Providing options to pre-order the food.

- Sorting Hotel according to preference like nearest, most-rated, choiceof cuisine etc.

References:

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6. http://www.ijritcc.org/download/browse/Volume_5_Issue s/ April_17_Volume_5_Issue_4/149 3100700_25-04-2017.pdf