

Guest House : -

Guest House service project is mainly implemented using three entities that are customer, room and food. The Customer table keeps the record of all guests that have registered and living in guest house. Rooms table keeps the record of all rooms and their status whether it is occupied or not. And the food table keeps the record of food menu available for order for the guest. The Description of these entities are as follow :-

1.Customer Table

Fields	Type	Size
cid (PRIMARY KEY)	varchar	30
password	varchar	150
name	varchar	30
email	varchar	30
mobile	varchar	15
rtype	int	---
amount (default 0)	int	---
paid (default 0)	int	---
checkin	date	---
type	int	---

cid is the customer id and this is unique for all the customers. Name is the name of the customer and password is the hashed password entered by the user at the time of registration. Email and mobile are the email and phone no. of user respectively. Rtype is the type of room user selected at the time of registration. There are three types of room that are Gold, Platinum and Diamond having value 1,2 and 3 respectively. Amount keeps track of total bill of the user and paid is the total amount that user has paid till. Checkin is the date when user checks in or registered. Last attribute type defines the user type. For all the customers it is zero and for admin it is 1.

2.Room Table

Fields	Type	Size
rid	varchar	30
rtype	int	--
status	int	--

rid is the room ID which is unique and the primary key. rtype is the room type which can take 3 values that is 1,2 and 3 that means Gold, Platinum and Diamond respectively. And the last attribute status keeps the record of occupancy. If status is 1 it means that room is occupied otherwise it is unoccupied.

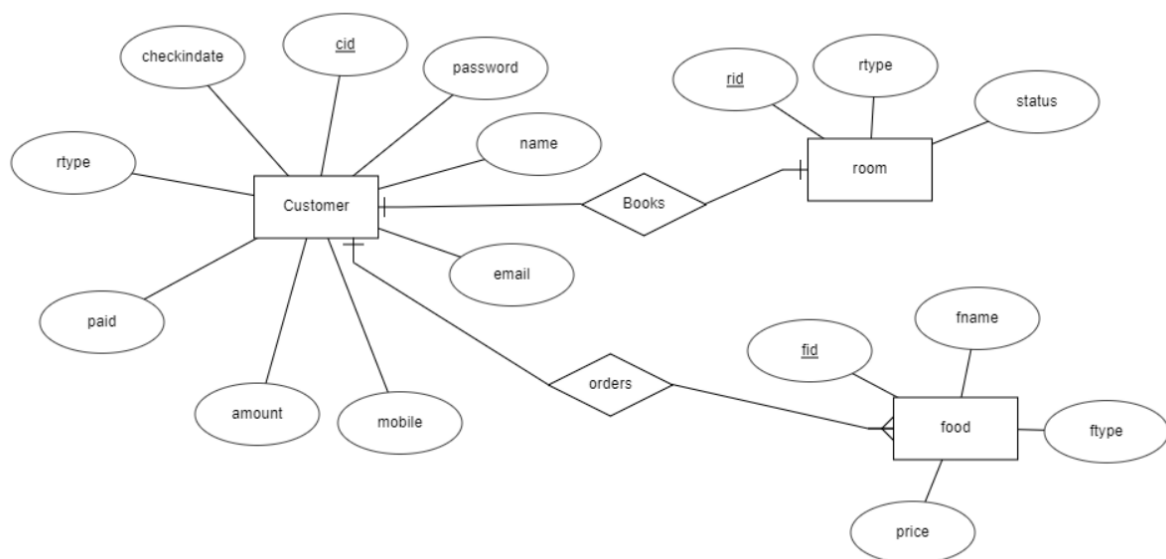
3.Food Table

Fields	Type	Size
fid	varchar	30
fname	varchar	30
ftype	int	---
price	int	---

fid is the Food ID which is unique and is the primary key. Fname is the name of food. Ftype is the food type. It takes three values 1,2 and 3 means it is for Breakfast, Lunch and Dinner. Price is the price of the food.

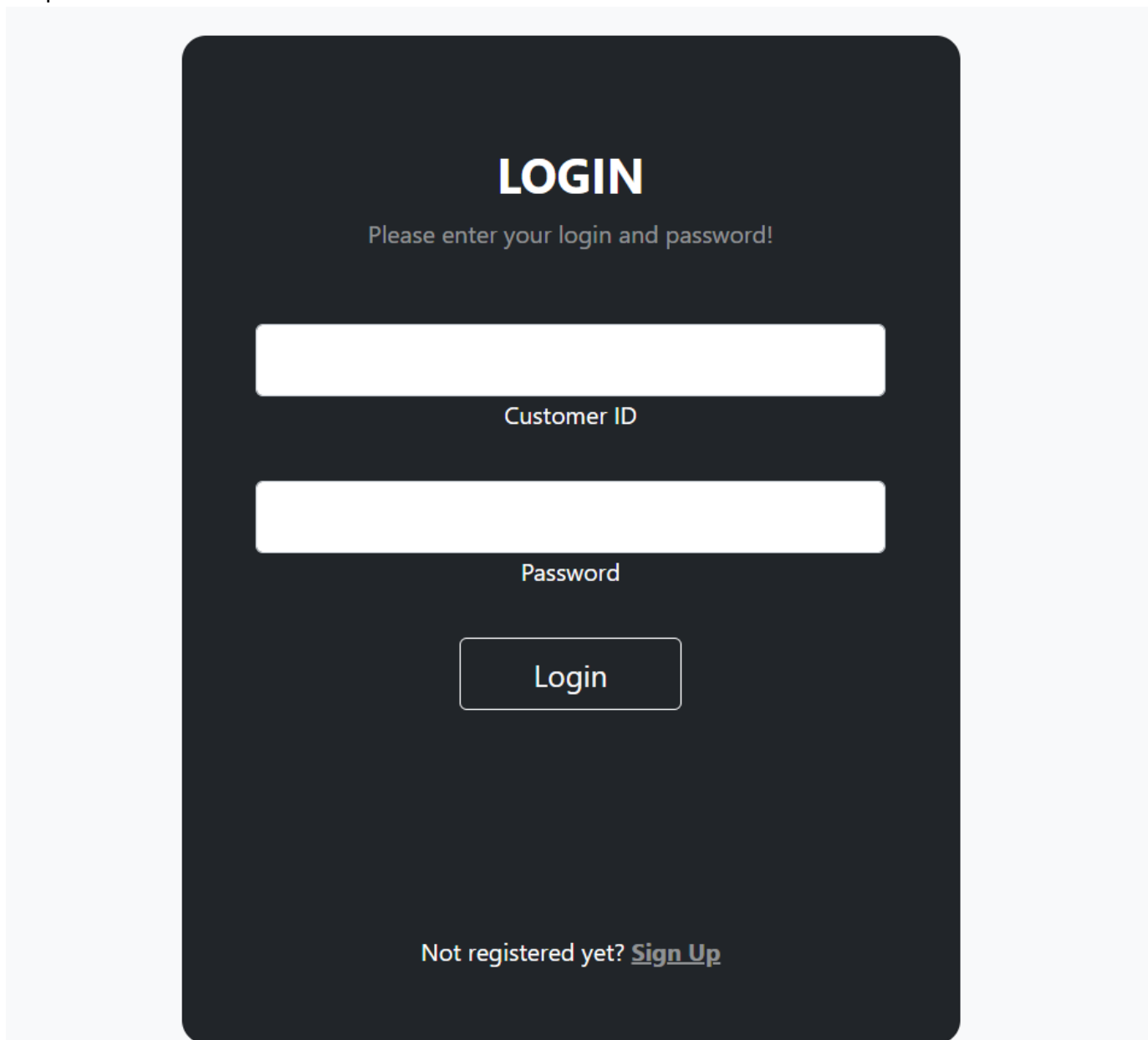
ER diagram

Based on the above-mentioned tables and relations used in implementation is given here-



Working :-

After starting the server and go to the link <https://localhost:4000/> it leads to the login page. Snap shot attached below

A screenshot of a login page with a dark blue background. At the top, the word "LOGIN" is written in large, bold, white capital letters. Below it, a smaller line of text says "Please enter your login and password!". There are two white input fields: the first is labeled "Customer ID" and the second is labeled "Password". Below the input fields is a white button with the word "Login" in black text. At the bottom, there is a link that says "Not registered yet? [Sign Up](#)".

LOGIN

Please enter your login and password!

Customer ID

Password

Login

Not registered yet? [Sign Up](#)

If user has not registered before or has to book the guest house the he hast to register first.

To register one can click on register or go to link <https://localhost:4000/register>

User has to fill the required fields. After clicking on register, If there is a vacant room of selected type then that room will be allocated to the user otherwise registration will fail.

If the registration is successful then it will show the customer id that will be used for login.

When user logs successfully then it directs the user to the user details page. In that page user can see his details. It also has an option to order food. First he has to choose type that is Breakfast, Lunch and Dinner. After that it will show the menu. Now user has to check the items that he wants to order and then he need to click on order button. The bill for the ordered food will be added into amount of user details page. Now user also has pay bill button from there he can pay the bills. There are some snapshots of pages-

Welcome John Smith Order Food ▾ Logout

User Details

Customer ID	CAX2001
Name	John Smith
Mobile Number	08789884172
Email	john@gmail.com
Check-in Date	Tue Nov 30 2021 00:00:00 GMT+0530 (India Standard Time)
Total bill	0
Paid bill	0
Amount to be paid	0

Pay Your Bill

Fig. User Details page

Order Food

Select food Items you want to order

<input type="checkbox"/> Rice	Rs.120
<input type="checkbox"/> Rajma	Rs.60
<input type="checkbox"/> Chicken Roll	Rs.40
<input type="checkbox"/> Roti	Rs.40
<input type="checkbox"/> Chicken curry	Rs.120
<input type="checkbox"/> Chicken Masala	Rs.120
<input type="checkbox"/> Chicken Biryani	Rs.120
<input type="checkbox"/> Palak Paneer	Rs.120
<input type="checkbox"/> Aloo Paratha	Rs.40
<input type="checkbox"/> Dal	Rs.40
<input type="checkbox"/> Masala Dosa	Rs.60

Order

Fig. Order food page

Pay Bill

Amount to be paid :

Pay!

Fig, Bill pay page

Admin control

First admin has to login using admin credentials. After successful login it will redirect it to admin dashboard page. This page shows the details of the admin and has three options of checking the details of customer, checking status of room and checking the menu and the food item where admin also can add new food. Some snapshots are also attached below-

Admin Detail page-

Welcome Shekhar (admin) [LogOut](#)

Admin Details

Admin ID	ADMIN
Name	Shekhar
Mobile Number	9876543210
Email	akshay@gmail.com

[Check Room Details](#)
[Check Food Details](#)
[Check Customer Details](#)

Customer Details Page

Customers Data

ID	Name	Email	Mobile	Room Number	Remaining Bill	Check-in Date
CAX1001	undefined	a@gmail.com	1234567	AX1001	0	2021-10-29
CAX2001	John Smith	john@gmail.com	08789884172	AX2001	0	2021-10-30

Room Details Page –

Rooms Details

Number	Type	Status
CAX1001	1	Occupied
CAX1002	1	Available
CAX1003	1	Available
CAX2001	2	Occupied
CAX2002	2	Available
CAX2003	2	Available
CAX3001	3	Available
CAX3002	3	Available
CAX3003	3	Available

New food item adding page-

Add New food Item

Food ID

Food Name

Food Type : ☐ Breakfast ☐ Lunch ☐ Dinner

Food Price

Query Used :=

Queries used :-

```
--Creating database
create database GuestHouse;

.....

----Creating Table Customer
create table customer(
    cid varchar(30) PRIMARY KEY,
    password varchar(150),
    name varchar(30),
    mobile varchar(15),
    email varchar(30),
    rtype int,
    amount int default 0,
    paid int default 0,
    checkin date,
    type int
);

.....

----Creating Table Food and
----Food Type : 1,2,3 (Breakfast,Lunch,Dinner)

create table food(
    fid varchar(30) PRIMARY KEY,
    fname varchar(30),
    ftype int,
    price int
)

.....

---Creating Table Room and
---Room Type : 1,2,3 (Gold,Platinum,Diamond)

create table room(
    rid varchar(30) PRIMARY KEY,
    rtype int,
    status int
);
```

After making these table insert a row in customer table whose username password will be used as ADMIN credential. For ex.

-----For inserting the row for ADMIN credential-----

```
mysql> insert into customer values('ADMIN','1234','Admin_Name','0000','admin@gmail.com',0,0,0,'0000-00-00',1);
```

--Choosing the first vacant user selected room

```
select rid from room where rtype={chosen_rid} and status=0 limit 1
```

---changing the status of room while allocating the room

```
update room set status=1 where rid={given_rid}
```

--updating the amount column of customer while after ordering food and bill generated;

```
update customer set amount=amount+${price} where cid='${req.session.passport.user}'
```

--updating paid column of customer after bill payment

```
update customer set paid=paid+${amount}
```

All queries are written in query.txt file uploaded in the google drive. Also the working demo is shown in video.