

Final report on CSE 311 : Group project

Hotel Management system

Introduction:

The project we choose to work on is Hotel Management System which is a very useful for our daily life. We can easily keep the data of available rooms, booking list, customer's info etc here. Visitors will provide their personal details and can get the rooms according to their criteria. There will be different charges for every room according to the facilities. We will keep the list of check-in and check-out times of a customer.

Here, in our project we will use these features given below:

1. Guest Info
2. Room Availability
3. Room Category
4. Room Fare
5. Booking Info
6. Cash Register

More tables also can be considered but these tables are core part of our project. Table name: booking Here we used column bookingid, roomid, customerid, bookingdate, checkin and checkout. These columns will show the data of customer's booking id, customer's id, their booking date and the timing of customer's check-in and check out time.

Table name: customer In this table we will use customerid, customername, address, contactno, profileimage columns to keep the corresponding data.

Table name: employee In this table, we will store the data of employee id, employee name, employee type, login and password through the columns of employeeid, empname, loginid, password, emptype

Table name: room Here we will use the columns of roomid, roomtypeid, roomnumber, description to store the corresponding data

Table name: roomtype In this table, we will store the data of roomtype id, room type, cost also will try to add images of room type. Table name: payment in this table, we will keep the data of payment id, booking id, amount, payment type, payment detail, payment date by these columns.

Background research and motivation:

Hotel management system is a project based on TRIVIGO app. It is a website/application for its users to easily navigate to different hotels and book rooms easily without having trouble with surfing in different websites. Our project is similar is to that of TRIVAGO where users can book and pay for in different types of rooms in different types of hotels in their dream destinations. Also verified hotel employees can access and manage information regarding their hotels.

Now answering the following questions:

Why this project?

Because hotel management system is a fun project meanwhile being useful to handful of travelers and tourists like us.

On to the next question, how will this solve a problem?

According to us, bringing all options together in one place will make the task easy and time saving for the customers. And it will come really handy in cases of those, who are in need of emergency accommodations.

Finally, yes we are trying to solve a problem of our own. We being students or any other young people who likes travelling, would love to have such a site which will solve their problem of booking any room any time with reasonable price. It really helps us to move forward quickly with the plan and makes the trip more likely to become successful.

Resources/Technology:

We have used following resources and technology for following our operation :

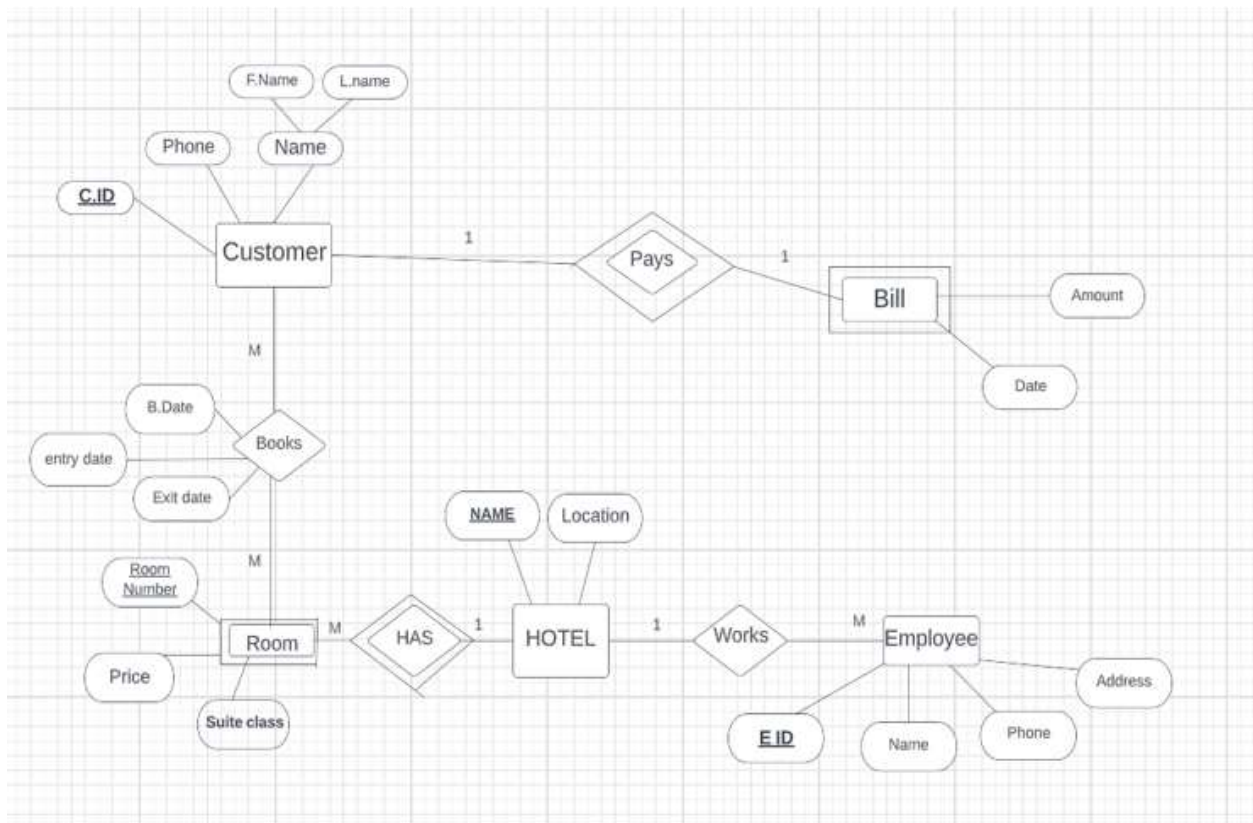
- Front end: html
- Database: MySql
- Back end: php

Project Design :

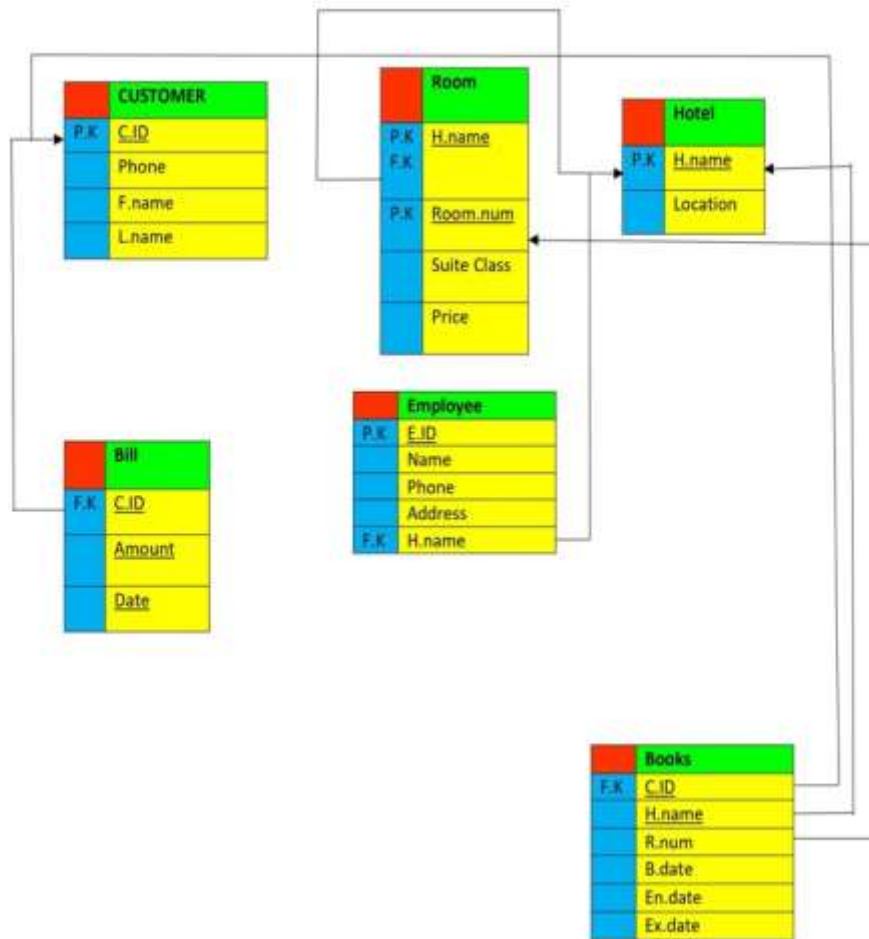
Hotel management system originally includes two user types which are customers and admin (hotel employees)

We have included one user type on our project which is admin. Admin can access in all the information about any customers booking any types of rooms at any given date. Here hotel employee is the admin.

ER diagram :



Relational Table:

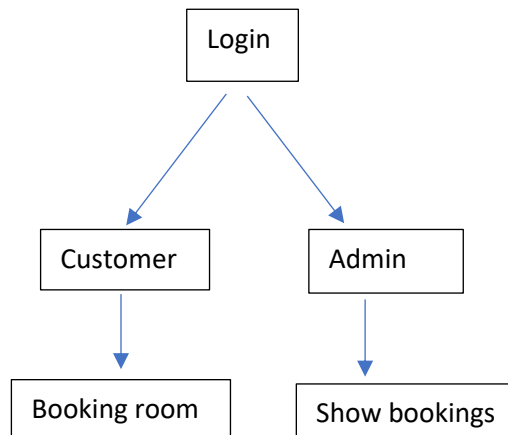
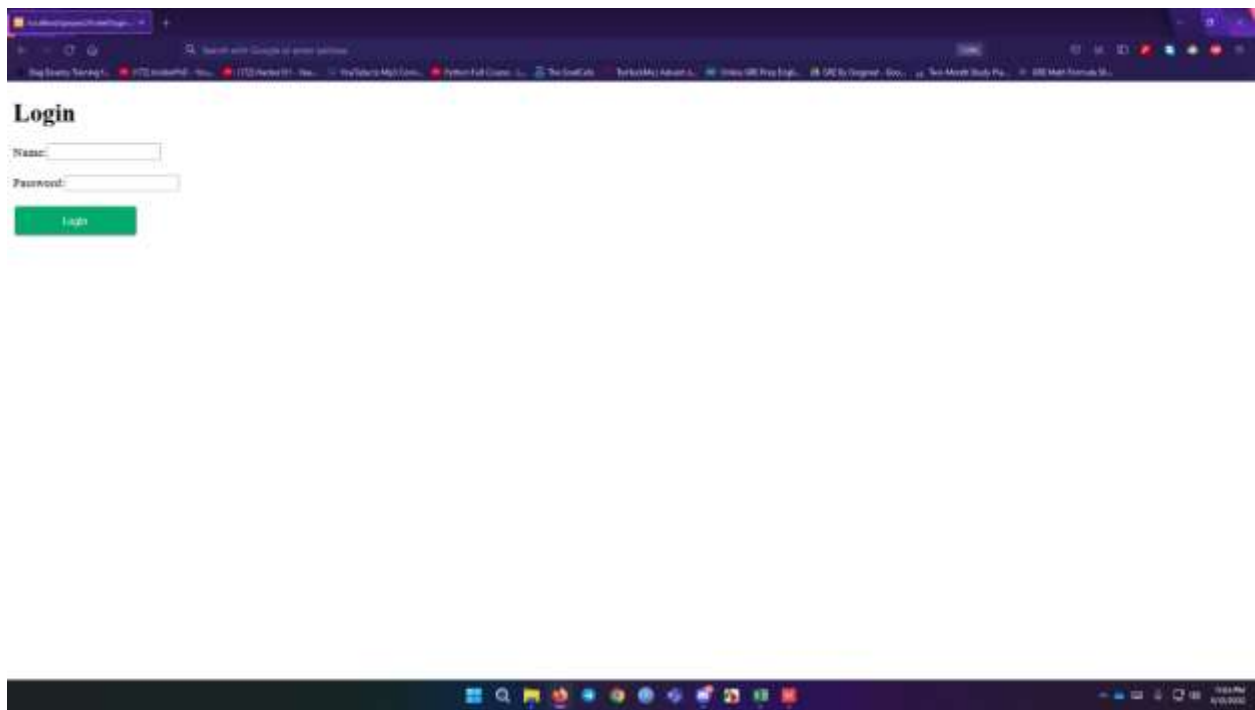


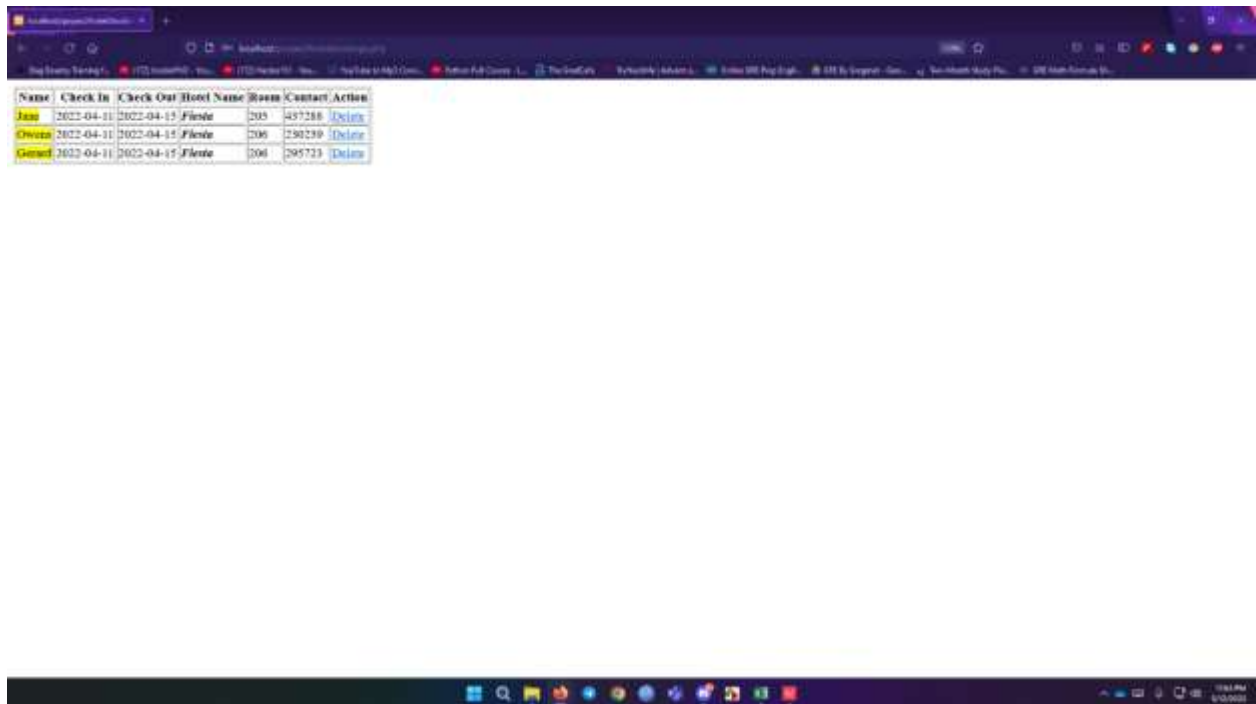
Following above is the basics of our project database it includes six tables which are:

'customer', 'room', 'hotel', 'bill', 'employee' and 'books'.

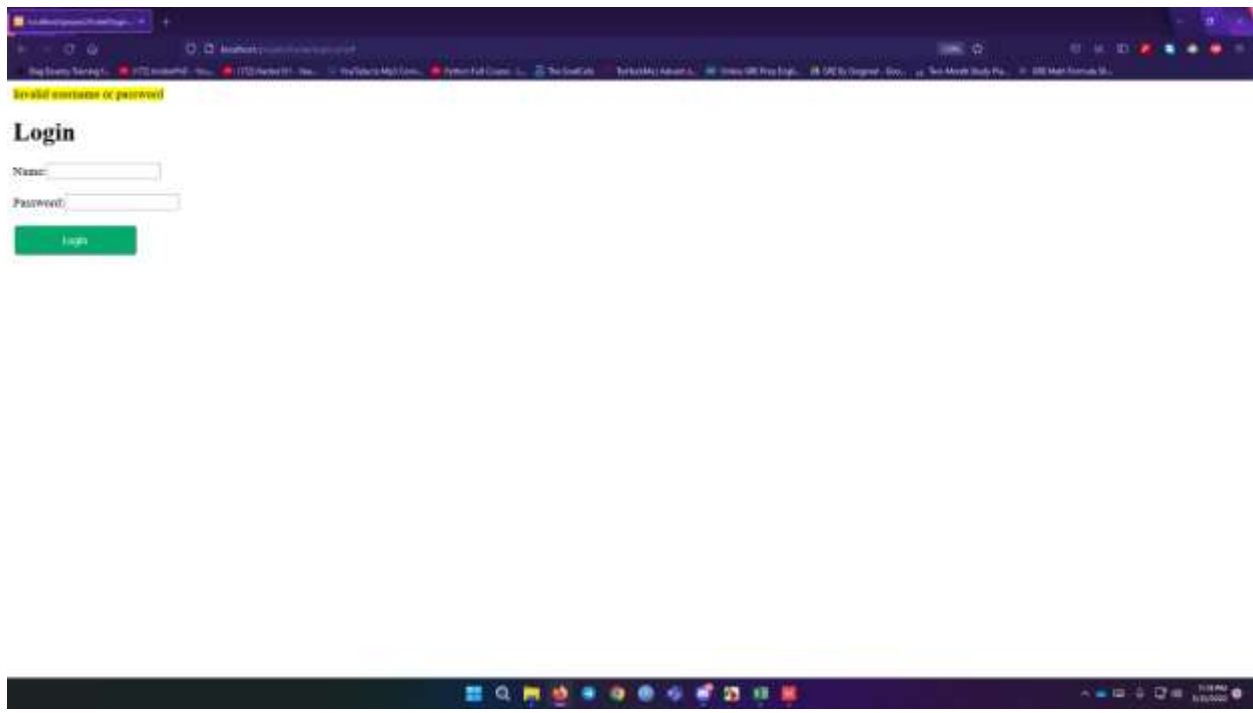
We have started by creating an ER diagram first. Then we have completed relational table. We have normalized the tables to 4nf after that we have created the database including all the tables finally we have used php ,CSS, html to create and connect the website with the database.

Site map:

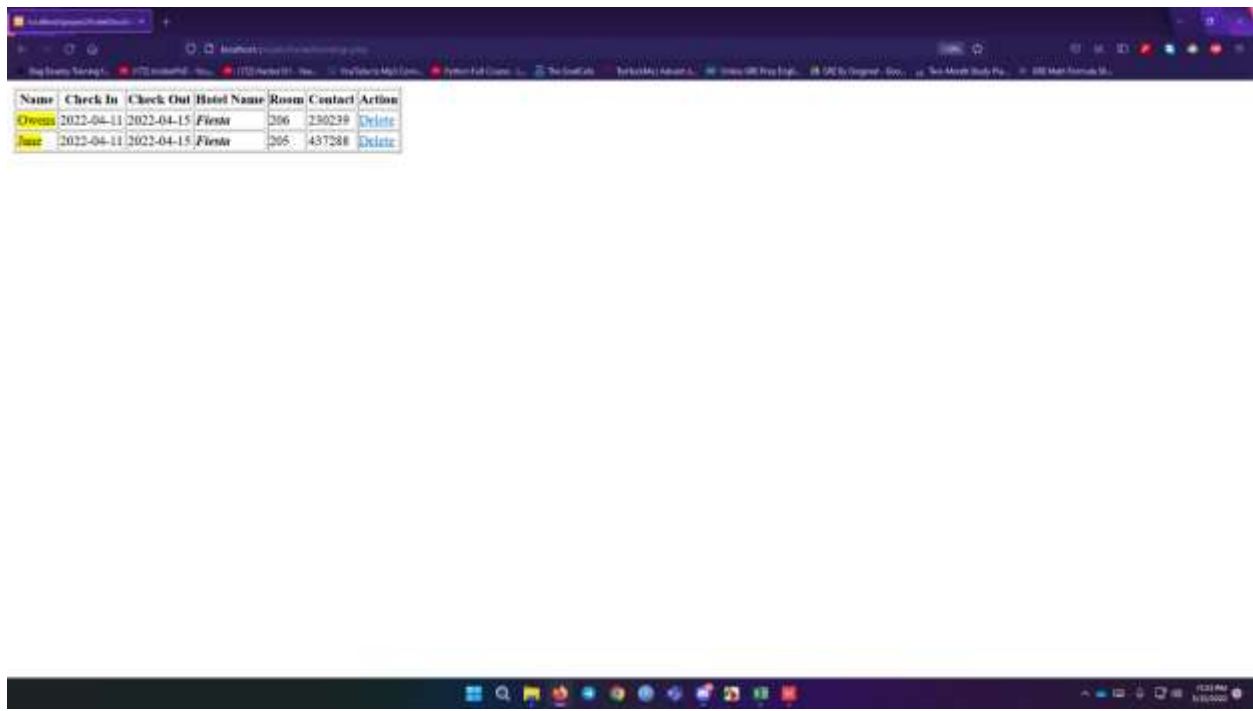




If we give proper information in login page it will redirect us to booking details.



If we give any invalid username or password it will take us back here in this page with the note it is invalid.



Here if we want to delete any bookings we need to click the delete button of that row. Then the booking details will be removed.

Conclusion and future work:

Even though the project is far from being perfect , we have learned our ways to php and html to work on this project. We are learning and using those resources which will be highly beneficial for us in the future.

Now, to make the web application more compact and polish we can input updated pictures and information for users to make it more user friendly.

Contributions :

The two members working in this project are

1. Sanjana Islam (ID : 2013337642)
2. Azfar Sadad Khan (ID : 2012395042)

The contributions made by Sanjana Islam are :

- Creating relational table from ER diagram.
- Creating database in MySql.
- Creating a PowerPoint presentation on project progress.
- Login.php file
- Creating frontend by using html and CSS.
- Writing final project report.

The contributions made by Azfar Sadad Khan are :

- Creating ER diagram based on hotel management system.
- Normalizing all the tables to 4nf.
- Creating database in MySql.
- Booking.php file.
- Writing final project report.