For this project I have made a hotel management website.

This is the database structure used in this project:

Diagram

Description automatically generated

Upon entering the website the user is greeted by this page:

Graphical user interface

Description automatically generated with medium confidence

Pressing the contact us hyperlink leads to: Text

Description automatically generated

While pressing the about us hyperlink leads to:

Text

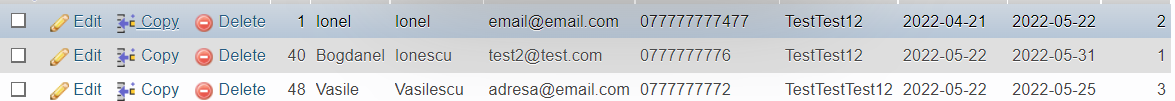
Description automatically generated

Pressing rent a room however leads to this page:

Graphical user interface, text

Description automatically generated

Which upon entering the required data, redirects the user towards another page, while saving the user input in the corresponding data base table as such:



Which has the following structure:

Graphical user interface

Description automatically generated

While most data is submitted by the user, the room is assigned automatically to a free room using the following bit of code:

$sql2 = "SELECT \* from `room` WHERE room.ID NOT IN

(SELECT room.ID FROM `room` INNER JOIN customer ON customer.Room WHERE room.ID=customer.Room AND customer.Room is NOT NULL);";

$rs2 = mysqli\_query($con, $sql2);

$row = mysqli\_fetch\_assoc($rs2);

$room = $row["ID" $sql2 = "SELECT \* from `room` WHERE room.ID NOT IN

(SELECT room.ID FROM `room` INNER JOIN customer ON customer.Room WHERE room.ID=customer.Room AND customer.Room is NOT NULL);";

$rs2 = mysqli\_query($con, $sql2);

$row = mysqli\_fetch\_assoc($rs2);

$room = $row["ID"];];

This can also be seen through one of the database views, called available rooms:



Upon hitting submit the user is redirected to this page:

Text

Description automatically generated

Which showcases the items on the room service menu, as they appear in the database table:

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Which is done by utilizing this bit of php code:

$sql2 = "SELECT \* from `roomservice`";

$rs2 = mysqli\_query($con, $sql2);

while($row = mysqli\_fetch\_assoc($rs2)) {

echo "" . $row["Meal"]. " - Price: " . $row["Price"]. "$<br>";

}

By pressing log in instead we get this page:

Graphical user interface, website

Description automatically generated

Which, depending on the type of email address introduced, sends us either to the customer side or the admin side, which was done by utilizing this bit of code:

$eAdress = $\_POST["eAdress"];

$cPass = $\_POST["cPass"];

$check = "@hotel.com";

if(strpos($eAdress, $check) !== false){

Due to this we can redirect the staff of the hotel, which have the right email address, given to them in the database table for admins:



Graphical user interface, application

Description automatically generated

The staff ID key lets us connect to the staff table, which allows us to see the data of the employees:

Graphical user interface, text, application, website

Description automatically generated

Graphical user interface, application

Description automatically generated

We can also view the employees that work on the ground floor, and the employees that are administrators using using the following views:

Staff on floor shows us this:

Graphical user interface, text, application, chat or text message

Description automatically generated

While admin staff shows us this:



By logging in, using the admin account we get sent to this page:

Text

Description automatically generated

Where we can create new entries, delete them or update them.

For example, let’s say that the customer entry we made above, no longer wishes to stay with us, therefore we can delete that entry as such:

A picture containing Teams

Description automatically generated

We get asked for the customer id, which in this case is 48, by entering it, we get redirected to the main administrator page, the one above this one, and the entry gets deleted from the table.

Graphical user interface, application

Description automatically generated

Now lets say that, the menu is looking a bit empty, so we will add a new entry using the insert option:

Graphical user interface

Description automatically generated with medium confidence

Now, after we press submit, we can see that in the corresponding table we have:

Graphical user interface, text, application

Description automatically generated

And lastly, if we wanted to raise the salary of one of our employees we could, by simply pressing the update button:

Graphical user interface, application, Teams

Description automatically generated

We can notice the changes in the table:

Graphical user interface, text, application, website

Description automatically generated

Finally, there are 2 more tables, as well as one more view which were not yet mentioned.

The table for the rooms has the following structure:

Graphical user interface, application

Description automatically generated

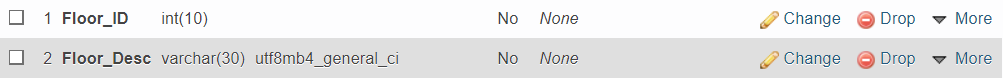
Graphical user interface, text, application

Description automatically generated

And they are tied to the floor table, which looks like this:

Graphical user interface, text, application, website

Description automatically generated



And lastly, our last view, which allows us to view the items on the room service menu which are more expensive than the classic bacon and eggs:

Graphical user interface, text, application, email, website

Description automatically generated