

SIR SYED UNIVERSITY OF ENGINEERING & TECHNOLOGY, KARACHI
DEPARTMENT OF INFORMATION TECHNOLOGY
DATABASE SYSTEMS

PROJECT: HOTEL MANAGEMENT SYSTEM WITH DATABASE

TEAM MEMBERS:

01.	SHAREYAR FAROOQUI	2020F-BSIT-025
02.	MUHAMMAD MUBASHIR	2020F-BSIT-016
03.	TALHA IMRAN	2020F-BSIT-027

01. BREIF INTRODUCTION:

The project, Hotel Management System is application that allows the hotel manager to handle all hotel activities online. Interactive GUI and the ability to manage various hotel bookings and rooms make this system very flexible and convenient. The hotel manager is a very busy person and does not have the time to sit and manage the entire activities manually on paper. This application gives him the power and flexibility to manage the entire system from a single online system. Hotel management project provides room booking, staff management and other necessary hotel management features. The system allows the manager to post available rooms in the system. Customers can view and book room online. Admin has the power of either approving or disapproving the customer's booking request. Other hotel services can also be viewed by the customers and can book them too. The system is hence useful for both customers and managers to portable manage the hotel activities.

02. FEATURES OF PROJECT:

Oversee Booking details:

After making reservation, customer or staff can see all booking details of selected customer or can see all bookings in hotel through their accounts.

Delete their data:

If a customer changes their mind and want to delete their reservation then they can simply delete it through the update reservation, customer will also be informed about their deleted reservation (if entered correctly when making first reservation).

Bill overview:

Once you have entered all your information and chose your desired room then by clicking overview will show you your total calculated bill.

Employee Login:

For hotel management, there are tons of employees working in it. Employees can login their account through login page by their given email/pass. Employees will be able to check all customers made up reservations.

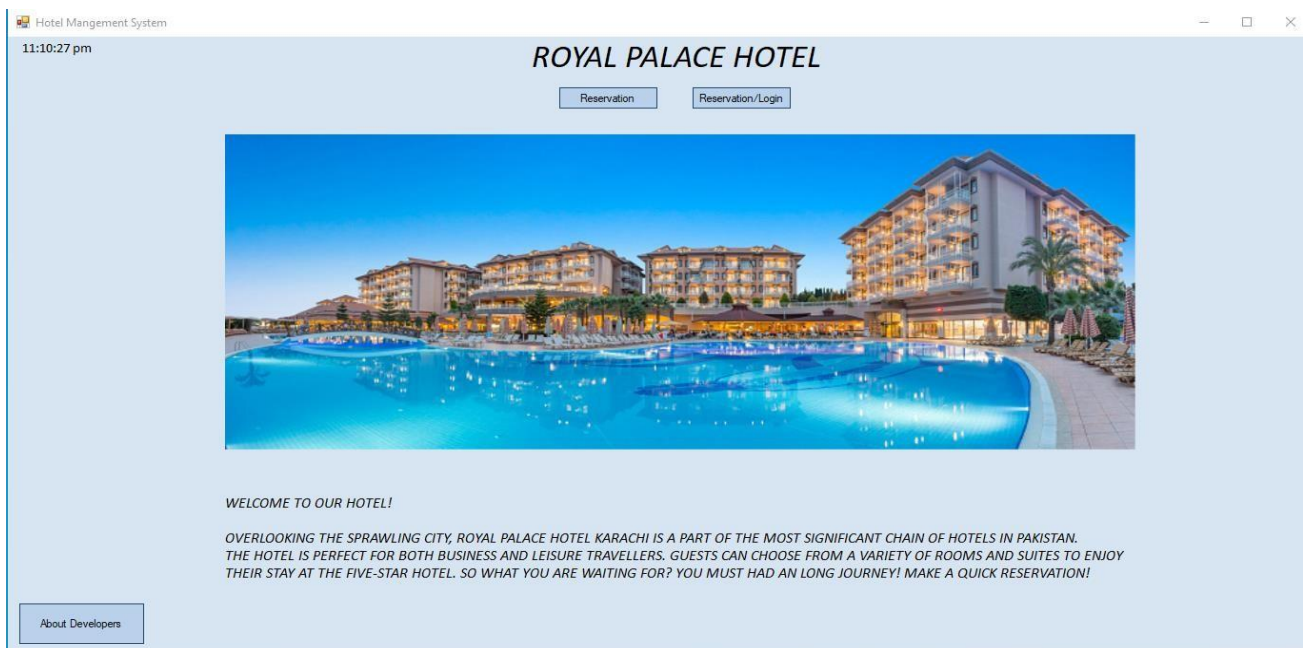
Guideline:

In our application we did all we could to make it user friendly, guide the user at every taken steps and informs whether they have entered info wrong or something is missing while reserving.

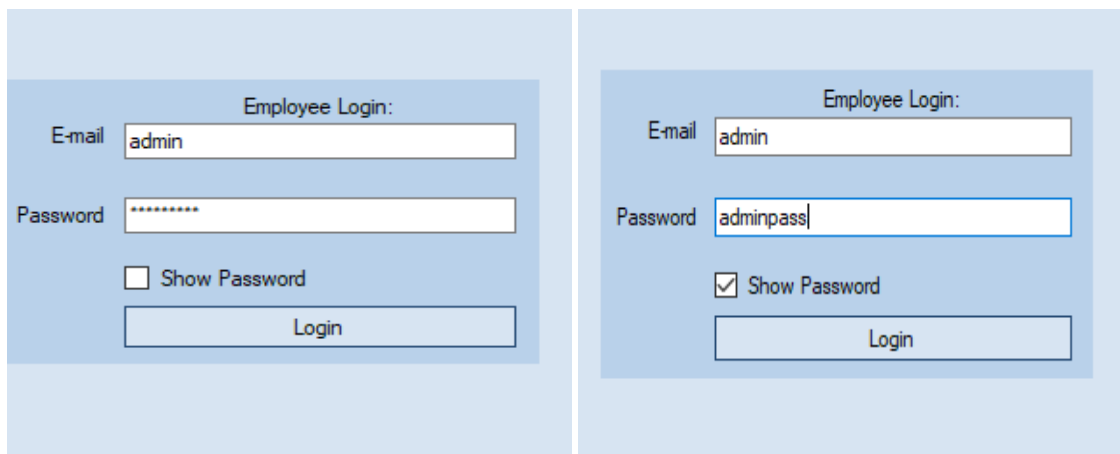
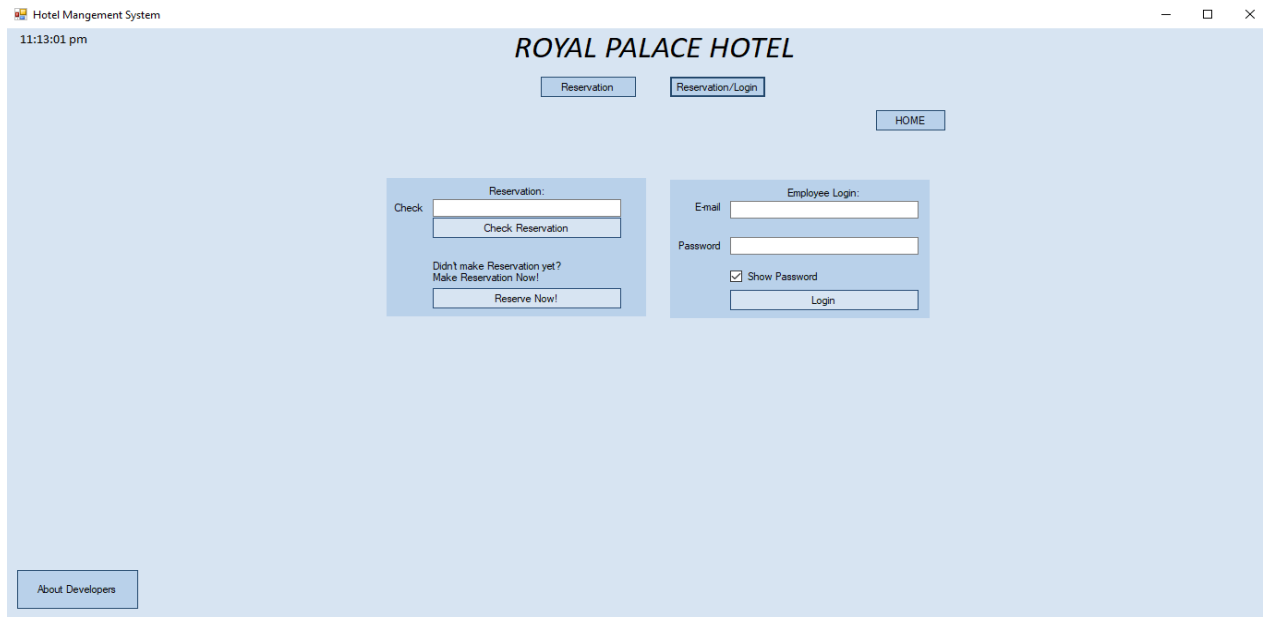
General advantage of Hotel Management System:

- Sometime it happens that the rooms get booked soon when one visits the place therefore user can make advance booking using this system.
- It saves user time in searching a room.
- The system is useful as it calculates an exact cost of rooms for requested number of days.
- It saves organization resources and expenses.
- This system is effective and saves time and cost of users.

03. METHODOLOGY:



The first thing that a user will see that is a warm welcome. User will see a slideshow which contains multiply pictures of hotel. And a small message from hotel management. If user wish to book a reservation, he can click on reservation button placed in most top side of application with reservation\login button. If you click on reservation\login a new page will open from where a user can login into his\her account (If you are an employee). And if you a customer, you can make and check your current reservation.



Every employee and admin have a dedicated email and password. As you can see in pictures.

[LOGOUT](#) [HOME](#)

INFORMATION
EMPLOYEE INFORMATION
RESERVATIONS

Name: Shareyar Farooqi

ID No.: 3234

Phone No.: (+92)33-32245436

Address: Gulshan-e-Iqbal Blk 3

E-mail: Shareyar

CNIC: 42301-4655346-3

Employed since: 05/01/2010

Position: Admin

This page will open if you are an admin. Admin have an ultimate control on this application. He\she can see his\her details and also employee's details. With that an admin can see all reservation that are made with this application.

[LOGOUT](#) [HOME](#)

Information
Reservations

Name: Muhammad Mubashir

ID No.: 250498

Phone No.: (+92)33-23865966

Address: Gulshan-e-Iqbal Blk 13D

E-mail: mubashir

CNIC: 42301-5468779-1

Employed since: 06/06/2015

Position: Manager

These kinds of pages will only open if you are one of the employees. employee can only see his\her details and with ability to see all reservation that are made with this application. Employee access is very limited as compare to admin.

Reservation:

Check

Didn't make Reservation yet?
Make Reservation Now!

This page will only open when user will click on reservation button only. User will be limited to reservation only.

Hotel Mangement System

11:22:25 pm

ROYAL PALACE HOTEL

Name:

Enter Name:

Birthday:

31/12/2002

Gender:

Male

Phone Number:

03#####

CNIC:

42301####

E-mail

.....@gmail.com

Verify that You Are Human:

Enter

Choice

Guest Numbers

Room Type

Choice:

Select Floor

Select Room

Arrival:

01/06/2021

Deperture:

02/06/2021

Payment Method:

☐ Card
 ☐ Cash

Enter Card Details:

Card number:


Exp Date:

MM


YY

CVC

Get Bill Overview



QUEEN BEDROOM:
LUXURIOUS ROOM WITH FACULTY TO ACCOMMODATE TWO PERSON.
ROOM COMES WITH VARIOUS FACILITIES:
01.BEDROOM WITH LOUNGE
02.FREE ACCESS TO COUPLE SPA
03.TWIN BATHROOMS
03.COMPLIMENTARY BREAKFAST, LUNCH, DINNER
04.ACCESS TO PIRVATE SWIMMING POOL GYM



KING SUITE:
LUXURIOUS ROOM WITH FACULTY TO ACCOMMODATE FOUR PERSON.
ROOM COMES WITH VARIOUS FACILITIES:
01.TWO BEDROOMS WITH ATTACHED LOUNGE
02.FREE ACCESS TO SPA
03.TWIN BATHROOMS
03.COMPLIMENTARY BREAKFAST, LUNCH, DINNER
04.ACCESS TO PIRVATE SWIMMING POOL G
05.COMPLIMENTARY WELCOME DRINKS AND FREE SNACKS

END OF SLIDE:

When a reserve now button is clicked a new page will open where a user has to enter his\her details to book a room. As you can see, we have given user an option to pay room fee through card or cash. Another thing you will see is that on right side we have given more details with all info and pictures of all room types available in our hotel.

Hotel Mangement System
8:03:50 pm

ROYAL PALACE HOTEL

Reservation Reservation/Login

BACK HOME

Name:
Shareyar Farooqui

Birthday:
31/10/2001

Gender:
Male

Phone Number:
(+92)316-3182402

CNIC:
1234-5678912-3

E-mail
bloodynoob19@gmail.com

Verify that You Are Human:

Generate Code

Enter

Choice:
04 King

Choice:
10 99

Arrival:
25/06/2021

Deperture:
26/06/2021

Payment Method: ☐ Card ☐ Cash


Enter Card Details:
Card number:

Exp Date: 03 2026
282


Delete

Get Bill Overview

ROOM DETAILS:



SINGLE BEDROOM:
LUXURIOUS ROOM WITH FACILITY TO ACCOMMODATE ONE PERSON.
ROOM COMES WITH VARIOUS FACILITIES:
01. 40 INCH TELEVISION
02. FREE ACCESS TO INTERNET
03. COMPLIMENTARY BREAKFAST
04. ACCESS TO PUBLIC SWIMMING POOL



DOUBLE BEDROOM:
LUXURIOUS ROOM WITH FACILITY TO ACCOMMODATE TWO PERSON.
ROOM COMES WITH VARIOUS FACILITIES:
01. 45 INCH TELEVISION
02. FREE ACCESS TO COUPLE SPA

About Developers

When all details are entered correctly, the user have to pass captcha test only then he can progress to next step.

RESERVATION

Name: Shareyar Farooqui

Phone no.: (+92)316-3182402

Room Type: King **Floor:** 10

Room Bill: Rs.28,000 **Total Bill:** Rs.29,960

Tax: Rs.1,960

OK

A bill overview will be provided to customer if wants an overview. This feature can be access through a “get bill overview” button.

DEVELOPERS

DEV INFO:

HELLO! WE AS A GROUP OF THREE CREATED THIS WINDOWS FORM APPLICATION AS OUR 4TH SEMESTER DATABASE SYSTEM PROJECT 2022. IT IS A HOTEL MANAGEMENT SYSTEM BASED ON C# PROGRAMMING LANGUAGE. THIS APPLICATION HAVE ABILITY TO MAKE A RESERVATION OF A ROOM, CONTAINS BOTH ADMIN EMPLOYEES DETAILS AND CAN SEND BILL TO CUSTOMER WITH HELP OF GMAIL ID . IT IS ALSO BACKED BY SQL SERVER.

TEAM MEMBERS:

01.SHAREYAR FAROOQUI

ROLL NO:2020F-BIT-025

02.MUHAMMAD MUBASHIR

ROLL NO:2020F-BIT-016

03.TALHA IMRAN

ROLL NO:2020F-BIT-027

OK

Not matter on what page you are on a user can see and click on about developer button.And by clicking he\she can see a small window, where a small message will appear from developers and names of developers.

04. DATABASE:

Now to save curial data of booking and staff details it was important to us to make a parament repository to store data. That why it was important to use database in our project. That's why all of data in our project is stored in database. We have used Microsoft sql server 2019 for this purpose.

First, we have created a schema whose name is HMS. It will store 2 tables, 1 for booking and second one is for staff.

The whole booking details can be overseen by staff through their accounts. Once they are logged in, they will have an option to see data. The output will be like this.

ROYAL PALACE HOTEL						
Reservation			Reservation/Login			
LOGOUT			HOME			
INFORMATION		EMPLOYEE INFORMATION			RESERVATIONS	
	uid_no	full_name	birthday	phone_no	cnic	email
►	51500	Sharayar Farooqui	10/31/01	(+92)333-0370211	12569-9513268-7	shareyar8@gmail
	10276	Mubashir murgi	02/20/99	(+92)356-1385196	25619-6895132-2	hamza@gmail.co
	88140	Abdul Hannan	06/6/96	(+92)316-4851396	42569-9513332-1	QariShab@gmail
	69686	Berry licious	06/29/69	(+92)355-9953168	49569-2513268-7	bb123@gmail.co
	99601	Talha anjum	1/31/00	(+92)333-6851039	45969-9577778-7	talha101@gmail
	95109	Hassan tlp_wala	12/31/00	(+92)310-9683951	95612-1326958-6	hassan902@gm
	98577	Sameed gpu walay	10/31/99	(+92)356-9610391	12240-5139268-9	gpu_walay@gm
	21309	Nehal Ahmed	09/18/03	(+92)316-6039851	19229-2695138-0	SNA028@gmail
	8540	Shariq jani	03/13/02	(+92)377-8510396	69125-5132968-3	shariq888@ma
*						

This isn't the only way, if user or staff member want to check a particular booking of a particular customer, then they can search it by help of check reservation option in

reservation tab. To search such booking a software would require uid on which booking is made. The output will look something like this.

ROYAL PALACE HOTEL

[Reservation](#)[Reservation/Login](#)[HOME](#)

Reservation:

Check

[Check Reservation](#)[Edit Reservation](#)

Didn't make Reservation yet?
Make Reservation Now!

[Reserve Now!](#)

Employee Login:

E-mail

Password

☐ Show Password

[Login](#)

	uid_no	full_name	birthday	phone_no	cnic	email
▶	51500	Sharayar Farooqui	10/31/01	(+92)333-0370211	12569-9513268-7	shareyar8@
*						

Not only this the staff or customer can delete a reservation from database through edit reservation option. The implementation of booking details table is limited to these sections.

Now moving to 2nd table which is staff details this data table will only contains data of employees and admin of hotel. The staff details can be accessed by admin as he will have administrative rights to oversee such data. The employees will be limited to their data only.

ROYAL PALACE HOTEL

[Reservation](#)
[Reservation/Login](#)

[LOGOUT](#)
[HOME](#)


INFORMATION	EMPLOYEE INFORMATION	RESERVATIONS
<p>Name: Shareyar Farooqui</p> <p>ID No.: 70777</p> <p>Phone No.: 92381549920</p> <p>Address: Gulshan-e-Iqbal block 3</p> <p>E-mail: Shareyar8@gmail.com</p> <p>CNIC: 42302-9871695-8</p> <p>Employed since: 05/01/2010 </p>	 <p>Position: Head OF Hotel</p>	

Similarly the employees will see their details like this.

ROYAL PALACE HOTEL

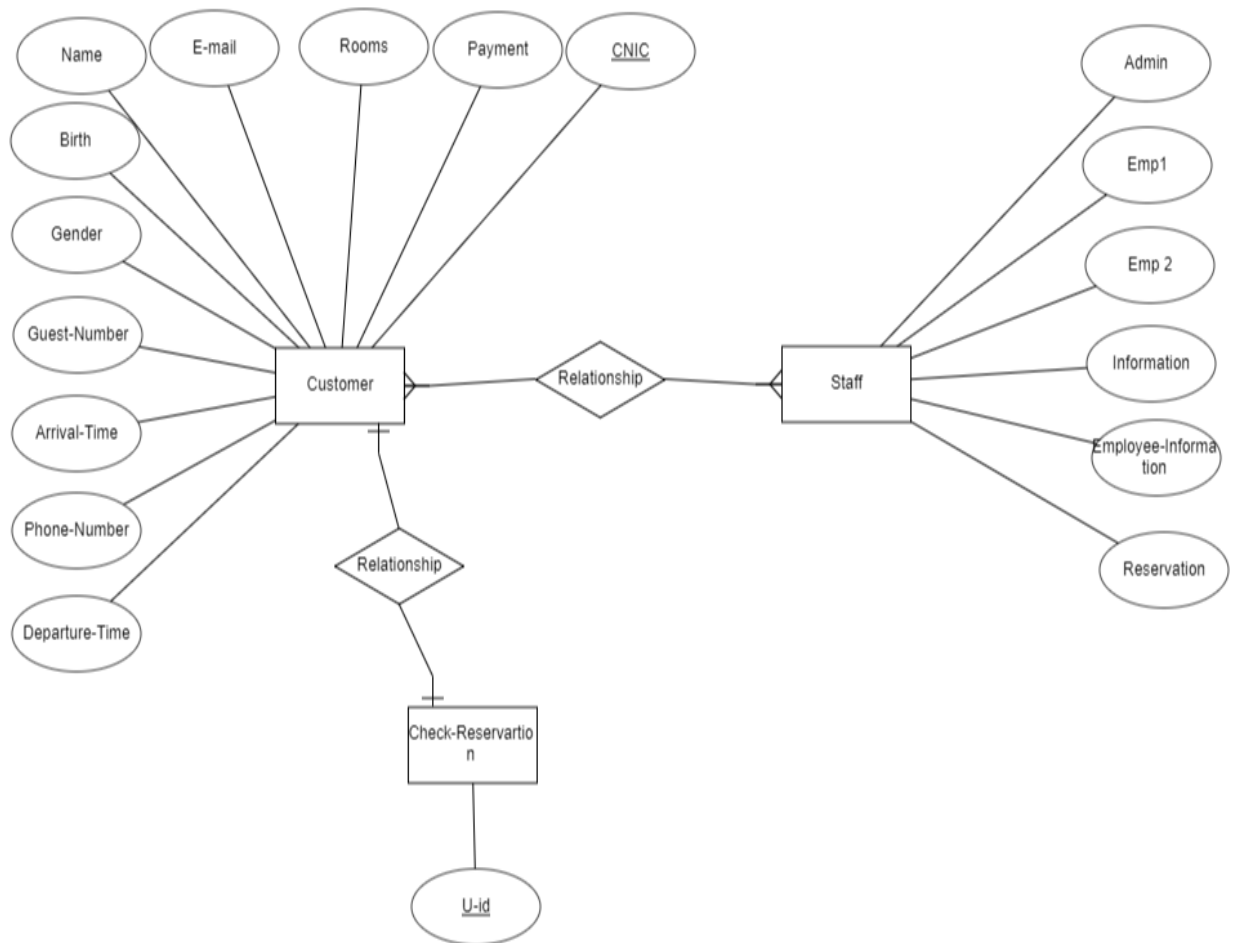
[Reservation](#)
[Reservation/Login](#)

[LOGOUT](#)
[HOME](#)

INFORMATION	EMPLOYEE INFORMATION	RESERVATIONS
MUHAMMAD MUBASHIR		TALHA IMRAN
<p>Name: Muhammad Mubashir</p> <p>ID No.: 250498</p> <p>Phone No.: 92358740612</p> <p>Address: Gulshan-e-Iqbal block 13D</p> <p>E-mail: MMubashir@gmail.com</p> <p>CNIC: 45698-7123025-8</p> <p>Employed since: 15/04/2014 </p>	 <p>Position: Employee</p>	

All details are fetched through ms sql server. The database is only limited to these areas as these areas show real data that hotel management system contains.

05. Entity Relational Diagram:



06. Conclusion:

This project is designed to meet the requirements of Online Hotel Management. It has been developed in Visual Basic keeping in mind the specifications of the system.

For designing the system, we have used simple ERD diagrams. Overall, the project teaches like:

- Using system analysis and design techniques like data flow diagram in designing the system.
- Easy method of reservation.
- Variety of Room.
- Multiple payment system.
- Admin & Employees check reservation.
- U-id helps you to check customer details.
- Understanding the database handling and query processing.