

HOTEL RESERVATION SYSTEM

Database Management System: Mini Project

Project By:

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Introduction

A hotel reservation management system is one in which the hotel maintains a record of the guest. A guest should book room/rooms in advance and should also be able to make use of the facilities provided by the hotel. A record of the services availed by the guest should be kept as well. These records help in generating the final bill.

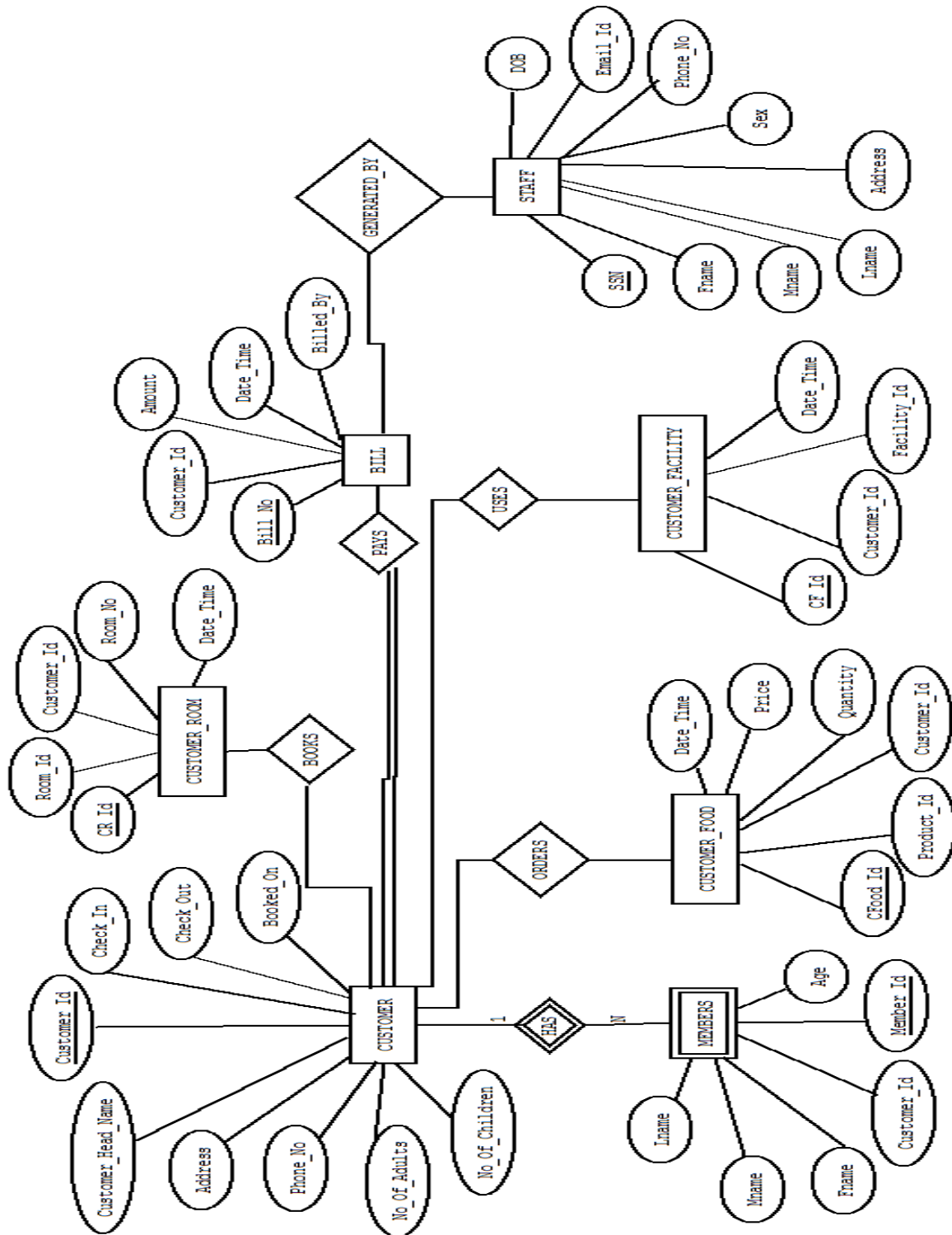
Our system provides the automation of reservation, facilities and billing system to the front desk staff and allows the guests to make and cancel bookings via the website.

Requirements

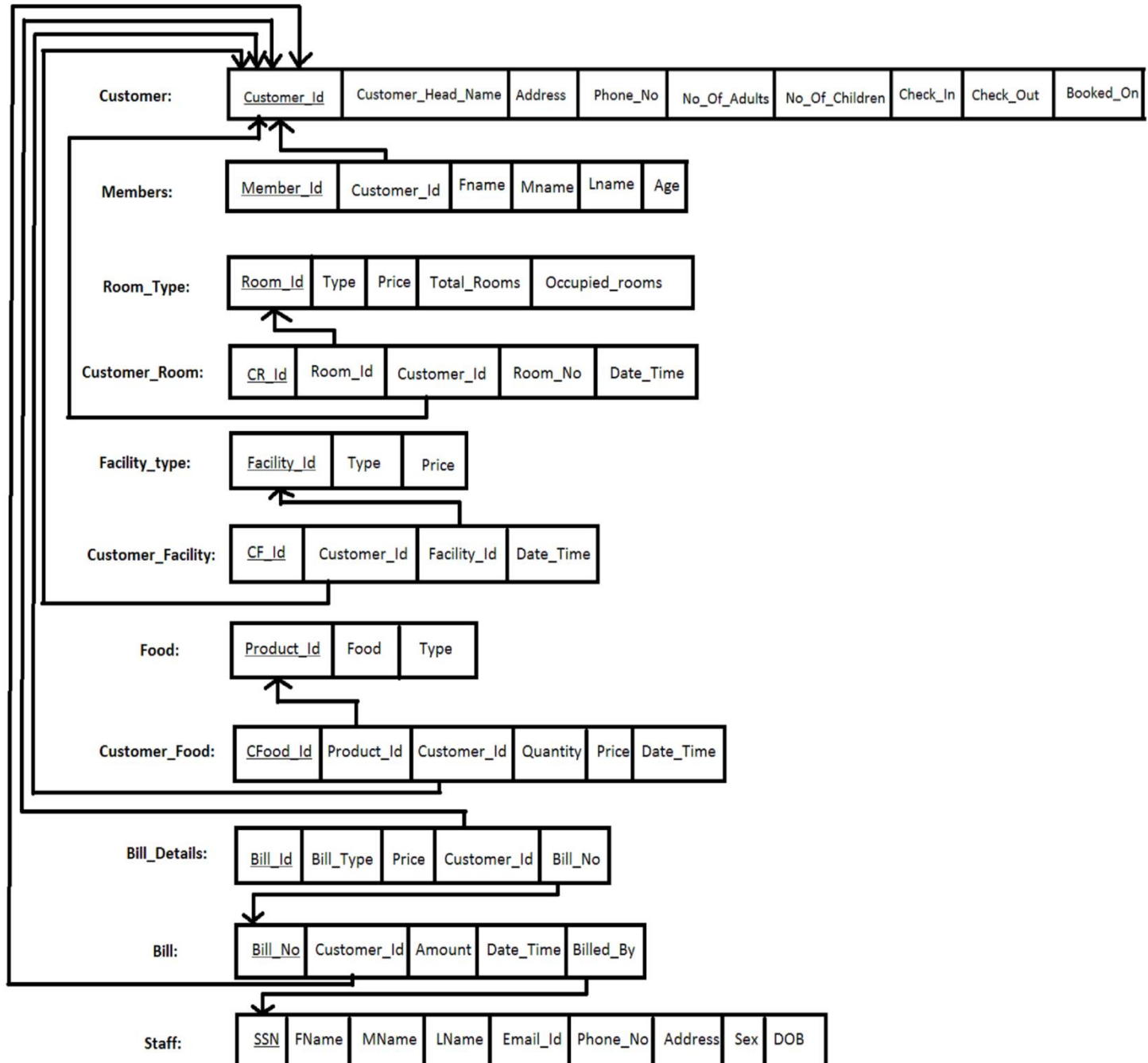
The hotel reservation management system should be able to satisfy the following requirements:

1. The system should be able to keep the records of the guests and the room allotted to them.
2. Guests should be able to book the rooms online.
3. Guests should be able to make changes to their bookings online.
4. The record of the services availed by the guest should be kept.
5. Guests should be able to cancel their reservations online.
6. All the changes made should be updated in the system.

ER Diagram



Schema Diagram



PHP Code

Connecting to the server:

```
<?php
error_reporting(0);

$servername = "localhost";
$username = "root";
$password = "";
$database = "purple_haze";

// Create connection

$conn = new mysqli($servername, $username, $password, $database);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

?>
```

Reservation and update:

```
<?php
include("db.php");

if($_REQUEST['action']=="update")
{
    $customer_id = $_REQUEST['update'];

    $result = mysqli_query($conn,"select * from customer where
customer_id=$customer_id");

    while($row=mysqli_fetch_assoc($result))
    {
        $Customer_Head_Name = $row['Customer_Head_Name'];
```

```

        $Address = $row['Address'];

        $Phone_No = $row['Phone_No'];

        $No_Of_Adults = $row['No_Of_Adults'];

        $No_Of_Children = $row['No_Of_Children'];

        $CheckIn = date("Y-m-d", strtotime($row['Check_In']));

        $CheckOut = date("Y-m-d", strtotime($row['Check_Out']));

    }

    $result = mysqli_query($conn,"select * from Customer_Facility
where customer_id=$customer_id");

    while($row=mysqli_fetch_assoc($result))

    {if($row['Facility_Id']=="1001")

        { $gym=1;}

        if($row['Facility_Id']=="1002")

            {$jacuzzi=1;}

        if($row['Facility_Id']=="1003")

            {$spa=1;}

        if($row['Facility_Id']=="1004")

            {$sauna=1;}

        if($row['Facility_Id']=="1005")

            {$pool=1;}

    }

}

if(!$_REQUEST['action'] && $_REQUEST['submit']!="")

{

    $customer_name = $_REQUEST['fullname'];

    $address = $_REQUEST['address'];

    $phoneno = $_REQUEST['phoneno'];

```

```

$adults = $_REQUEST['adults'];

$children = $_REQUEST['children'];

$checkin = $_REQUEST['checkin'];

$checkout = $_REQUEST['checkout'];

$room_type = $_REQUEST['room_type'];

$gym = $_REQUEST['gym'];

$jacuzzi = $_REQUEST['jacuzzi'];

$spa = $_REQUEST['spa'];

$sauna = $_REQUEST['sauna'];

$pool = $_REQUEST['pool'];

mysql_query($conn, "INSERT INTO customer (Customer_Head_Name,
Address, Phone_No, No_Of_Adults, No_Of_Children, Check_In, Check_Out,
Booked_On) VALUES
('$customer_name','$address','$phoneno','$adults','$children','$checki
n','$checkout',NOW())");

$customer_id = mysqli_insert_id($conn);

$room_num = $return_val = 1;

while($room_num == $return_val)

{

    $room_num = rand(1,100);

    $return_val = check_room_number($room_num);

}

mysql_query($conn, "insert into Customer_Room
(Customer_Id,Room_Id,Room_No,Date_Time) values
('$customer_id','$room_type','$room_num',NOW())");

if($gym != "")

{

    mysql_query($conn, "INSERT INTO Customer_Facility
(Customer_Id, Facility_Id, Date_Time) VALUES
('$customer_id','$gym',NOW())");

```

```

    }

    if($jacuzzi != "")

    {

        mysqli_query($conn, "INSERT INTO Customer_Facility
(Customer_Id, Facility_Id, Date_Time) VALUES
('$customer_id','$jacuzzi',NOW())");

    }

    if($spa != "")

    {

        mysqli_query($conn, "INSERT INTO Customer_Facility
(Customer_Id, Facility_Id, Date_Time) VALUES
('$customer_id','$spa',NOW())");

    }

    if($sauna != "")

    {

        mysqli_query($conn, "INSERT INTO Customer_Facility
(Customer_Id, Facility_Id, Date_Time) VALUES
('$customer_id','$sauna',NOW())");

    }

    if($pool != "")

    {

        mysqli_query($conn, "INSERT INTO Customer_Facility
(Customer_Id, Facility_Id, Date_Time) VALUES
('$customer_id','$pool',NOW())");

    }

    mysqli_query($conn, "UPDATE room_type RT SET Occupied_Rooms =
(SELECT count(*) FROM Customer_Room CR WHERE CR.Room_Id=RT.Room_Id)");

```



```
$a = mysqli_query($conn, "SELECT sum(FT.Price) AS facility_rent
FROM customer_facility CF JOIN facility_type FT ON FT.Facility_Id =
CF.Facility_Id WHERE Customer_Id = $customer_id");
```

```
$b = mysqli_query($conn, "select Price from room_type RT where
Room_Id in (select Room_Id from customer_room CR where
CR.Room_Id=RT.Room_Id and Customer_Id=$customer_id)");
```

```
while($row=mysqli_fetch_assoc($a))
```

```
{
```

```
    $facility_rent=$row['facility_rent'];
```

```
}
```

```
while($row=mysqli_fetch_assoc($b))
```

```
{
```

```
    $room_rent=$row['Price'];
```

```
}
```

```
$bill_total = $facility_rent + $room_rent;
```

```
mysqli_query($conn, "insert into bill(Customer_Id,
Amount,Date_Time,Billed_By) values
('$customer_id','$bill_total',NOW(),1)");
```

```
mysqli_query($conn, "insert into bill_details(Customer_Id,
Amount,Date_Time,Billed_By) values
('$customer_id','$bill_total',NOW(),1)");
```

```
$bill_id = mysqli_insert_id($conn);
```

```
mysqli_query($conn, "insert into bill_details(Bill_Type, Price,
Customer_Id, Bill_No) values
('Facility','$facility_rent','$customer_id','$bill_id)");
```

```
mysqli_query($conn, "insert into bill_details(Bill_Type, Price,
Customer_Id, Bill_No) values
('Room','$room_rent','$customer_id','$bill_id)");
```

```
header("Location: family.php?id=".$customer_id);
```

```

}

else if($_REQUEST['action']=="Save")
{
    $customer_name = $_REQUEST['fullname'];
    $address = $_REQUEST['address'];
    $phoneno = $_REQUEST['phoneno'];
    $adults = $_REQUEST['adults'];
    $children = $_REQUEST['children'];
    $checkin = $_REQUEST['checkin'];
    $checkout = $_REQUEST['checkout'];
    $room_type = $_REQUEST['room_type'];
    $customer_id = $_REQUEST['id'];
    $gym = $_REQUEST['gym'];
    $jacuzzi = $_REQUEST['jacuzzi'];
    $spa = $_REQUEST['spa'];
    $sauna = $_REQUEST['sauna'];
    $pool = $_REQUEST['pool'];

    mysqli_query($conn, "update customer set
Customer_Head_Name='$customer_name', Address='$address',
Phone_No='$phoneno', No_Of_Adults='$adults',
No_Of_Children='$children', Check_In='$checkin', Check_Out='$checkout'
where Customer_Id=$customer_id");

    mysqli_query($conn,"delete from customer_facility where
Customer_Id='$customer_id'");

    if($gym != "")
    {

```

```

        mysqli_query($conn, "insert into Customer_Facility
(Customer_Id, Facility_Id, Date_Time) values
('$customer_id','$gym',NOW())");

    }

    if($jacuzzi != "")

    {

        mysqli_query($conn, "insert into Customer_Facility
(Customer_Id, Facility_Id, Date_Time) values
('$customer_id','$jacuzzi',NOW())");

    }

    if($spa != "")

    {

        mysqli_query($conn, "insert into Customer_Facility
(Customer_Id, Facility_Id, Date_Time) values
('$customer_id','$spa',NOW())");

    }

    if($sauna != "")

    {

        mysqli_query($conn, "insert into Customer_Facility
(Customer_Id, Facility_Id, Date_Time) values
('$customer_id','$sauna',NOW())");

    }

    if($pool != "")

    {

        mysqli_query($conn, "insert into Customer_Facility
(Customer_Id, Facility_Id, Date_Time) values
('$customer_id','$pool',NOW())");

    }

    header("Location: thankyou.php?id=".$customer_id);

}

function check_room_number($num)

```

```

{
    $result = mysqli_query($conn,"select Room_No from customer_room
where Room_No = $num");

    while($row=mysqli_fetch_assoc($result))
    {
        return $row['Room_No'];
    }
}
?>

```

Cancelling a reservation:

```

<?php
include("db.php");
if($_REQUEST['submit'] != "")
{
    $customer_id = $_REQUEST['cancellation'];

    mysqli_query($conn, "delete from customer where
Customer_Id=$customer_id");

    $customer_id = mysqli_insert_id($conn);

    header("Location: home.php");
}
?>

```

Tools Used

1. MySQL
2. HTML and CSS
3. PHP