Reference Document

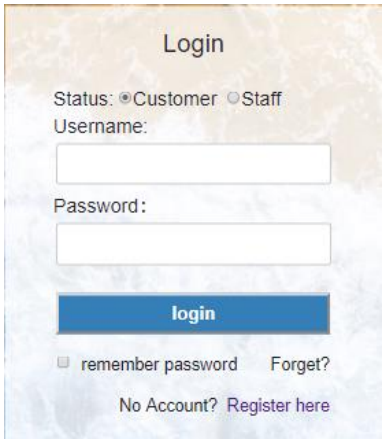
Introduction to Hotel Management System

1. Home Page

The home page is generated by the "index.php" file. At the top of the webpage, there are three buttons which navigates you to different system web pages.

2. Login System

This page provides the access to login. User should choose status and enter username and corresponding password. If you don't fill the blanks or if your password doesn't match your username and status, the system will give an error message and refresh the page. For customers, the web page will jump to the room booking system after successful login. At the bottom of the window, you can click "Register here" if you don't have an account. For staff, the account is already set up in the database. User can just click "Staff" status and enter the username "jianjun" and password "123456" to the Staff page.



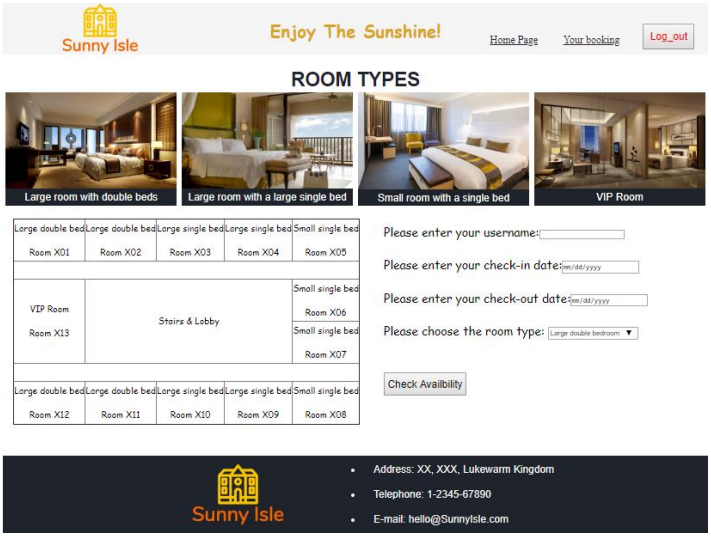
3. Register System

In the register system, the customer should input the real information, such as guest's real name, passport ID, telephone number and email address. Also, the user needs to set up username and password. If you don't fill the blanks or the username already exists, the system will provide an error message. After building the account, the system will jump to the login

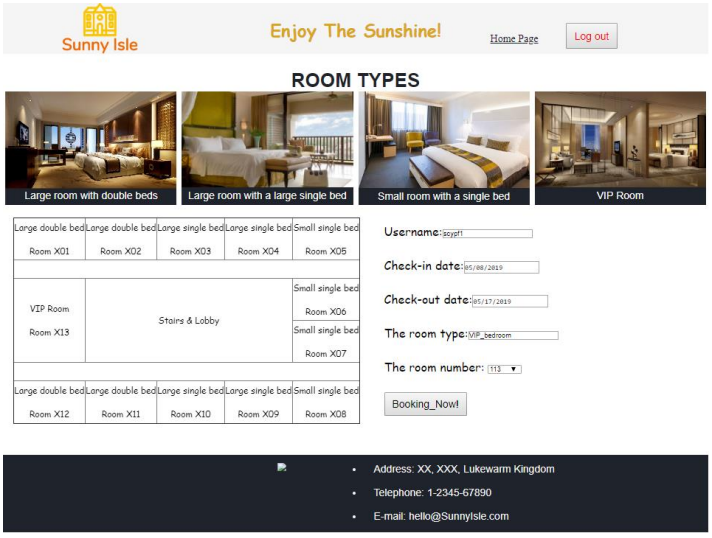
page automatically.

4. Room Booking System

Before entering the room booking page, the system will check whether the use has logged in. If not, the web page will return to the login page. Four types of room and hotel scale floor plan are shown below, which helps users to book the room. The user needs to enter the username, check-in and check-out date and select room types. If the dates are not valid, an error message will be given.



Then user need to press the “Check availability” button to choose the room number. All the information entered in the previous page will be shown. If the user is allowed to select the valid room number. Otherwise, the system will provide a valid room number for the user. In the end, the user can click the “Booking Now” button and complete the booking procedure.



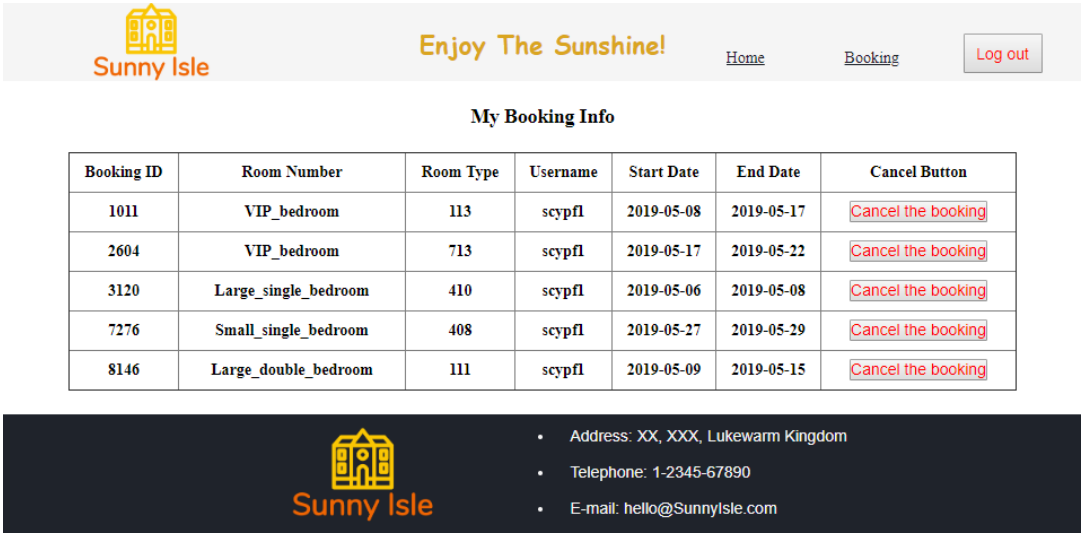
5. Customer booking information system

After booking, the page will jump to “Booking Info” page and all the booking information will be shown there, where a 4-number booking ID is distributed for the user by the system. The Booking ID is different so that user can book multiple rooms for someone else. The user is allowed to cancel the booking by clicking “Cancel the booking” button. The user can log out

if finishing the booking step.

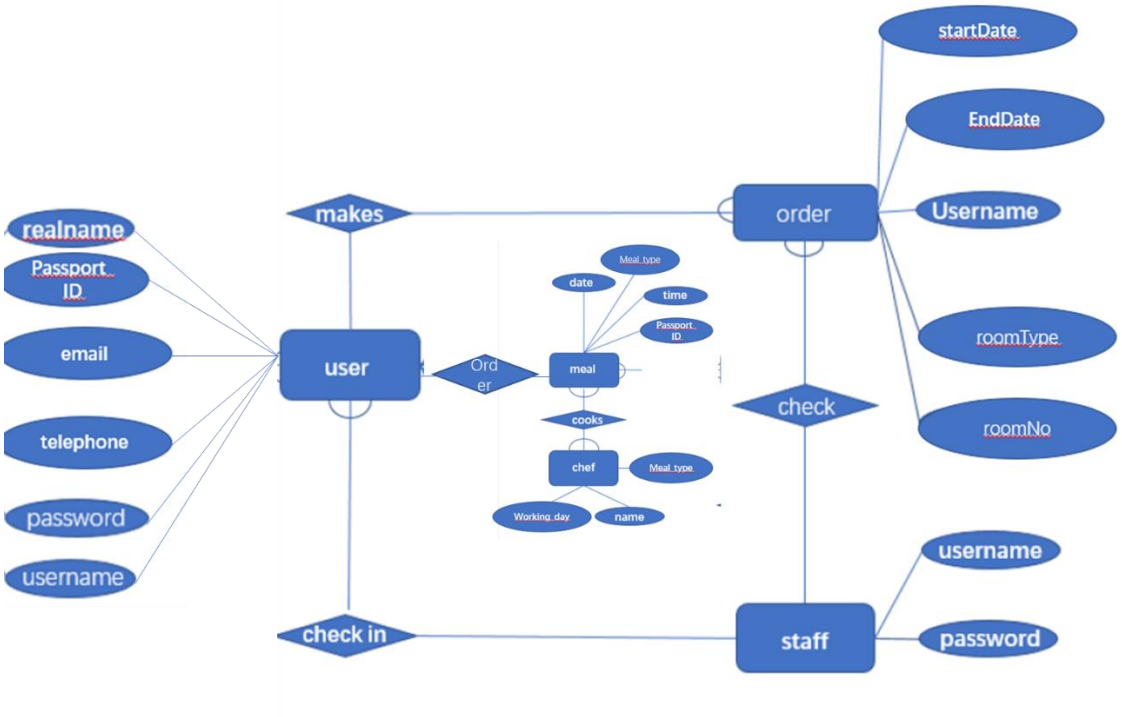
6. Staff page

For staff, after logging into the system, the page will jump to the staff page for staff to view all the booking information. The staff is also allowed to cancel the booking if customer is busy.



Additional Functions

1. Entity-Relationship Diagram



2. SQL statements

```
CREATE TABLE Chef (
   chefID INT PRIMARY KEY,
   Name VARCHAR(255),
   MealType VARCHAR(255),
   Weekday VARCHAR(255),
);
CREATE TABLE Meals(
      dishesType VARCHAR(255),
      date DATE,
      time TIME,
      passportID INT PRIMARY KEY,
);
CREATE TABLE Check {
      username VARCHAR(50),
      passportID INT,
      StartDate INT,
      EndDate INT,
      RoomNo INT,
};
```

3. Illustration

The staff should be able to book the room for customers if they are busy. The relevant

information should be provided in the database. When the customer contacts to the hotel's staff and wants to book a room, the booking steps can be completed by the staff as long as the information provided by the user should be same than that recorded in the database.

Because the booking ID is assigned to the booking information for one booking step and passport ID is unique for each person, user can use his username and his friends' passport ID to book multiple rooms for their friends and told them the corresponding booking ID. Their friends only need to show the booking ID and their passport ID and tell the staff who helped to book the room if they arrive at the hotel. The passport ID should also indicate the customers' state which mean whether they are in the room.

If the customer wants to order the meals, a ordering page should be provided for him/her to fill the blanks so that the chef can know the information. In the page, the customer will choose the preferred meals and the time and date the customer orders. The order should be filled in advance so that the chef can make a better preparation. Otherwise, the system will remind the customer the valid information.

A ordering system should be built, which contains all dishes types every day in a week. Chefs' working schedules are provided through the web page. Also, the rest of chefs' information is be recorded in the system