

Mid Term Examination

Project Topic: Online Hotel Reservation System

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Abstract—This work denotes online hotel reservation system. This study aims to develop and design an online hotel reservation system so that travellers can book rooms by using a website. Online hotel reservation system also ensures that the travellers can maintain online security to protect their privacy and financial information.

Index Terms—PHP,SQL,hotel,room,traveller,system,online.

I. INTRODUCTION

The Hotel Industry like any other business opens up socio-economic opportunities for both owner and customer. It has the function of providing hospitality services to customers. These customers can be travelers, foreigners, businessmen, tourists, visitors, etc. Customers are mostly constrained in trying to get a room to pass the night, as the usual practice is to look for a hotel when you have arrived in the particular location, walk in and find out whether there is a vacant room. In the case that there is no vacant room, you have to move to next closest hotel to enquire once more. So what happens if you move around sometimes very late in the night in search of a room and all close by hotels are fully booked? Other times you may be lucky to have the contact number of the hotel to reach them to book for a room. But do the hotel attendants really ensure to keep a room for you? You would be lucky to go and get a room booked for you. They are quick to serve those who walk in rather than those who may get access to them on phone to book a room. On other times too, if you have friends or family members in the area you want a room booked, they have to go and do the checking for you. There is no system in place that bonds the hotel and the customer that the customer has actually booked a room and for that matter he is guaranteed a room.

Online hotel reservation system is a popular method for booking hotel rooms. Travellers can book rooms using a website and also they can maintain online security to protect their privacy and financial information and by using several online websites they can compare prices and facilities at different hotels.

The study therefore aimed at developing online hotel reservation system to enable customers book for whatever they need from wherever location they are before lodging into the

hotel. The system is to allow for easy access and retrieval of information and reporting

By using online hotel reservation system a user will be able to book a room and also he will get the detail information of that particular room.

Online hotel reservation system is also helpful for making last minute travel arrangements. Hotels may drop the price of a room if some rooms are still available. There are several websites that specialize in searches for deals on rooms.

Through this online hotel reservation system the travellers will be able to book their desired room very easily.

The price range is an important factor before choosing rooms. So rooms will be available with different price range so that the visitor can choose his room according to his budget.

Advantages of online hotel reservation system:

1. A user can reserve rooms with their own room preferences at any time.
2. Attractive price range.
3. User's review on the website based on the quality of rooms will help other user's to take their decision.
4. The user will enjoy many discount offers on bookings.

II. LITERATURE REVIEW

Bemile, Richard, Akwasi Achampong, and Emmanuel Danquah had worked on "Online hotel reservation system." which was published in International Journal of Innovative Science, Engineering Technology 1.9 (2014). The study therefore aimed at developing an online hotel reservation system to enable customers book for whatever they need from wherever location they are before lodging into the hotel. The system is to allow for easy access and retrieval of information and reporting. With such a system in place. Their online hotel reservation system was made for HANSONIC Hotel in Dansoman which was established in the 1973.

Delizo, Glenda A., and Mischelle A. Esguerra had worked "Online Hotel Reservation and Management System for The College of International Tourism and Hospitality Management (CITHM)." which was published in International Journal of Computers Technology 10.1 (2013): 1201-1229. This study aims to develop and design an on-line hotel reservation and

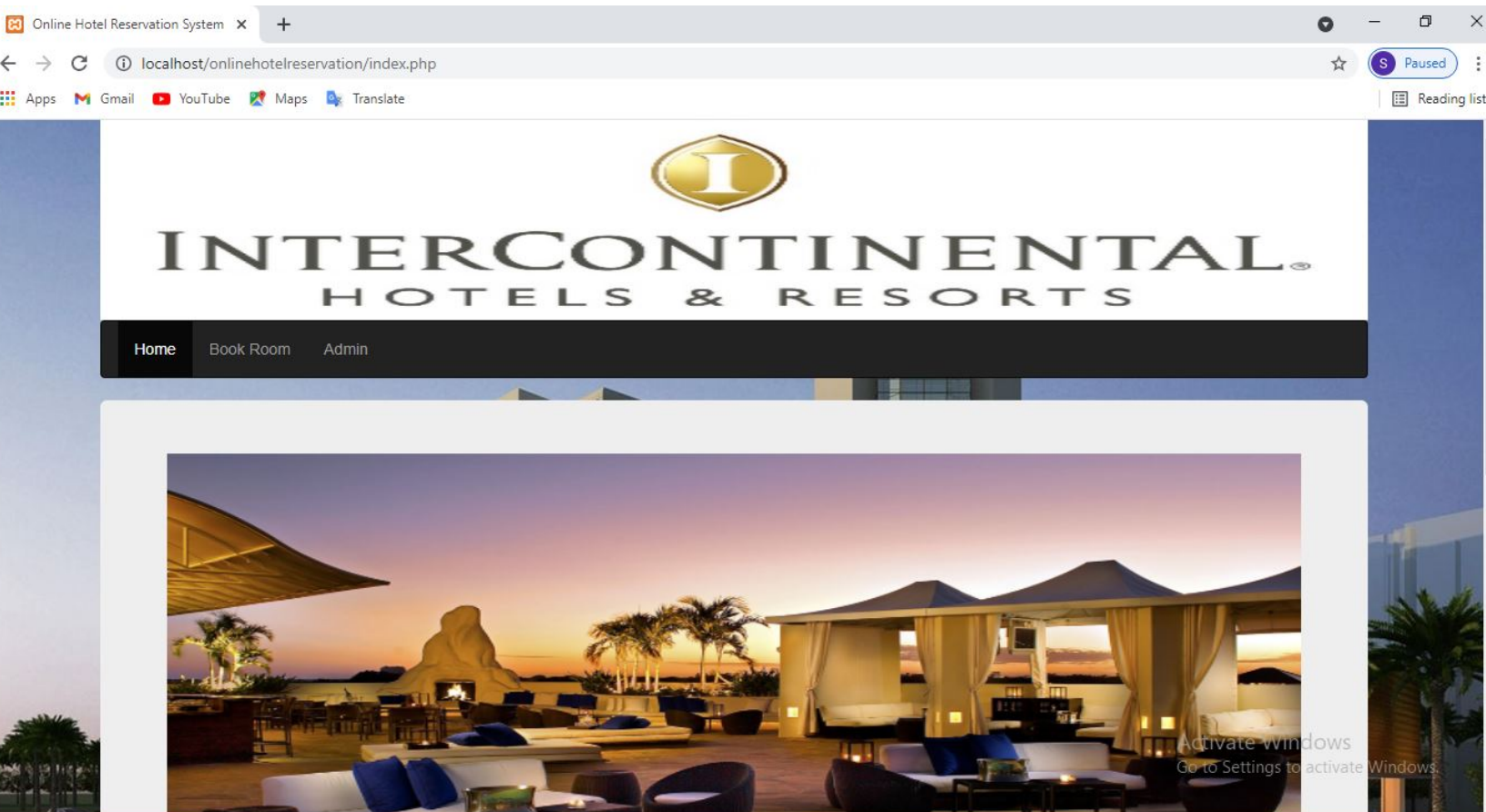


Fig. 1. Home Page

management system for the College of International Tourism and Hospitality Management of the Lyceum of the Philippines University, Batangas Campus. It presents user-friendly features that will familiarize CITHM students on the online hotel reservation system, evaluate it and highlight the benefits it can provide to the college and staff. In addition, it will purvey supplement material in their front desk operation course. The researchers used the System Development Life Cycle and Microsoft Web Developer 2008 as the programming language. The developed software served as a tool for the students of CITHM to familiarize them on how to operate an online hotel reservation system. The developed software was an effective aid for the instructors in teaching the basic operations of hotel reservation system to their students. It also provided online security to protect privacy and financial information of clients.

III. PROPOSED METHODOLOGY

Online hotel reservation system works by processing secure online reservations made through a hotel's website. The data is then passed onto a back-end system which can be accessed by hotels to manage bookings. Other features may come with it – for example, the automation of reservation confirmation emails.

Small hotel managers and owners recognize that technology

is key to growing their business and increasing their bookings overtime. To sell rooms to capacity and to appeal to a global audience, a hotel reservation system is required.

However, it can be intimidating to select a system, particularly when so many are designed for large hotel operations and chains.

I will use Microsoft Visual Studio IDE and Notepad++ to develop this project.

Brief overview of the technology:

Back end: PHP, MySQL:

1.PHP: Hypertext Preprocessor (PHP) is used to create dynamically generated web pages.

2.MySQL: MySql is a database, widely used for accessing querying, updating, and managing data in databases. Here I have used MySQL to create database.

Front end: HTML, CSS, Bootstrap.

1.HTML: HTML is used to create and save web document.

2.CSS : (Cascading Style Sheets) CSS is used to Create attractive Layout.

3.Bootstrap: Bootstrap is used to create responsive design mobile friendly site.

Features of Online hotel reservation system:

Under the Home page there will be features like Room &

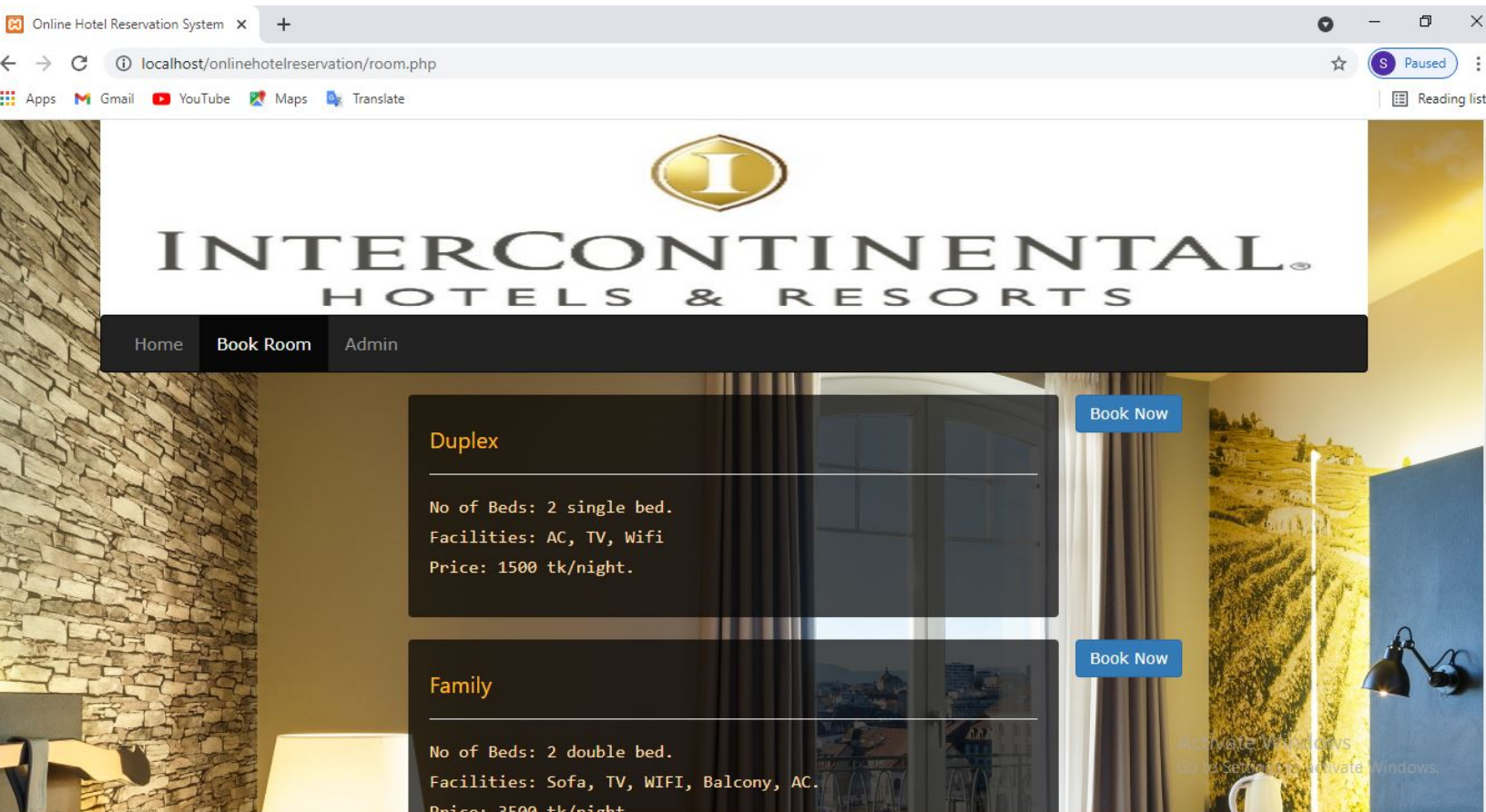


Fig. 2. Book Room

Facilities, Online Reservation, Admin etc.

There will be a Review option under the Room & Facilities. An user will be able to view features like Room & Facilities, Online Reservation, Review etc.

The admin section is for administrators of this website who will update important things like Room Category, Bookings, Add Manager etc.

First of all the admin have to Log In using his Username or Email and password to update Room Category, Bookings, Add Manager etc.

1. Homepage

A homepage is the main web page of a website.

Homepage refers to one or more pages always shown in a web browser when the application starts up. In this case, it is also known as the start page.

In our homepage there are a lot of stuff like about us, contact us, developed by etc.

About us section describe the purpose of our website. This about us section tell us what is the purpose of an online hotel reservation system.

Contact us contains the contact info of the hotel like physical address and email address of the hotel. Developed by section contains the information of website developer. Here I have mentioned the name and GitHub link of the website developer.

2. Book Room

A user will be able to book room from this page and all necessary information of a room will be available in this page. All the information associated with rooms like is it single bed or double bed, does it have Sofa, TV, Balcony, AC, WiFi facility etc will be available on this page.

Room prices are also available on this page.

A user can book room by just clicking on the Book Now button.

After clicking on book now button this website will require some information of the user like name, phone number, Check In date, Check

Out Date to confirm the reservation. After filling those necessary information the user have to click the Book Now button again and after clicking Book Now button hotel reservation process will be completed.

3. Admin Panel

To enter into the admin panel first of all the admin have to log in using username or email and password.

After login the Admin panel interface will be visible in-front of admin.

The admin will manage things like adding or editing room category or editing booked rooms.

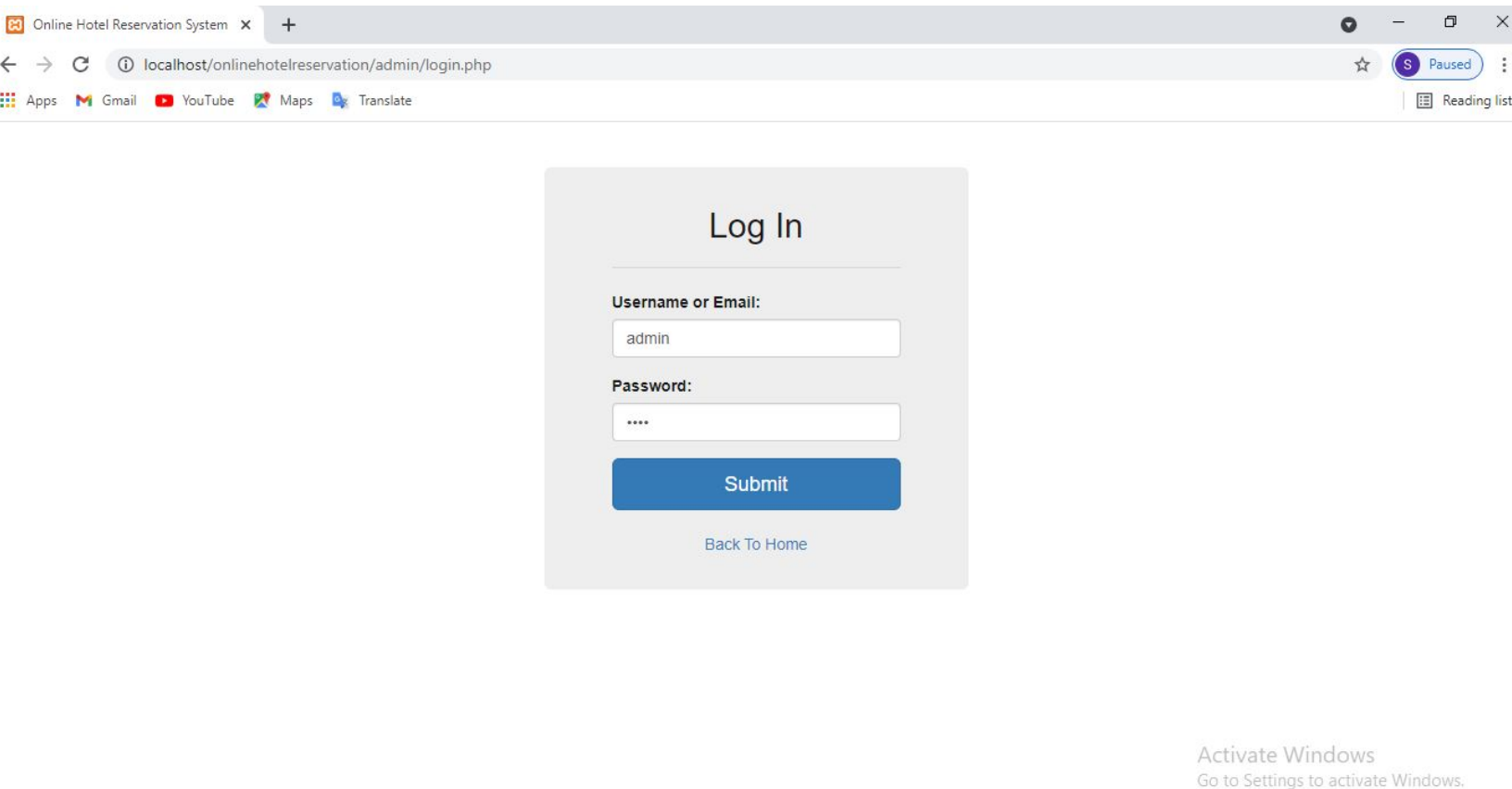


Fig. 3. Login Page For Admin

IV. CONCLUSION AND FUTURE WORK

I want to make an android app based on this website so that android users can access this service easily. Currently only one hotel is available in my website I will try to add some foreign hotels in my website so that the foreign visitors also can book hotel room using my website. I will add the information like mobile number, addresses of travel agents into my website. I will try to make this website more user friendly, easy to access and attractive. I will make some changes to this website so that this website can run more smoothly.

ACKNOWLEDGMENT

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REFERENCES

- [1] Bemile, Richard, Akwasi Achampong, and Emmanuel Danquah. "Online hotel reservation system." *International Journal of Innovative Science, Engineering Technology* 1.9 (2014): 583-588.
- [2] Anuar, Jazira, Mushaireen Musa, and Khazainah Khalid. "Smartphone's application adoption benefits using mobile hotel reservation system (MHRS) among 3 to 5-star city hotels in Malaysia." *Procedia-Social and Behavioral Sciences* 130 (2014): 552-557.
- [3] Ali, Farman, Eun Kyoung Kim, and Yong-Gi Kim. "Type-2 fuzzy ontology-based opinion mining and information extraction: A proposal to automate the hotel reservation system." *Applied Intelligence* 42.3 (2015): 481-500.
- [4] Schütze, Jörg. "Pricing strategies for perishable products: the case of Vienna and the hotel reservation system hrs. com." *Central European Journal of Operations Research* 16.1 (2008): 43-66.
- [5] Girsang, Abba Suganda, et al. "Decision support system using data warehouse for hotel reservation system." *2017 International Conference on Sustainable Information Engineering and Technology (SIET)*. IEEE, 2017.
- [6] Ivanov, Stanislav Hristov. "Conceptual marketing framework for online hotel reservation system design." *Tourism Today* 8 (2008): 7-32.
- [7] Chirathamjaree, Chaiyaporn. "An intelligent hotel reservation system." *Allied Academies International Conference. Academy of Management Information and Decision Sciences. Proceedings. Vol. 5. No. 1*. Jordan Whitney Enterprises, Inc, 2001.
- [8] Hu, Ping, and Dong Xiao Gu. "Development and implementation of web-based online hotel reservation system." *Applied Mechanics and Materials*. Vol. 347. Trans Tech Publications Ltd, 2013.
- [9] Khwaldeh, Sufian, et al. "The impact of mobile hotel reservation system on continuous intention to use in Jordan." *Tourism and Hospitality Research* 20.3 (2020): 358-371./
- [10] Kim, Woo Gon, and Dong Jin Kim. "Factors affecting online hotel reservation intention between online and non-online customers." *International Journal of Hospitality Management* 23.4 (2004): 381-395.

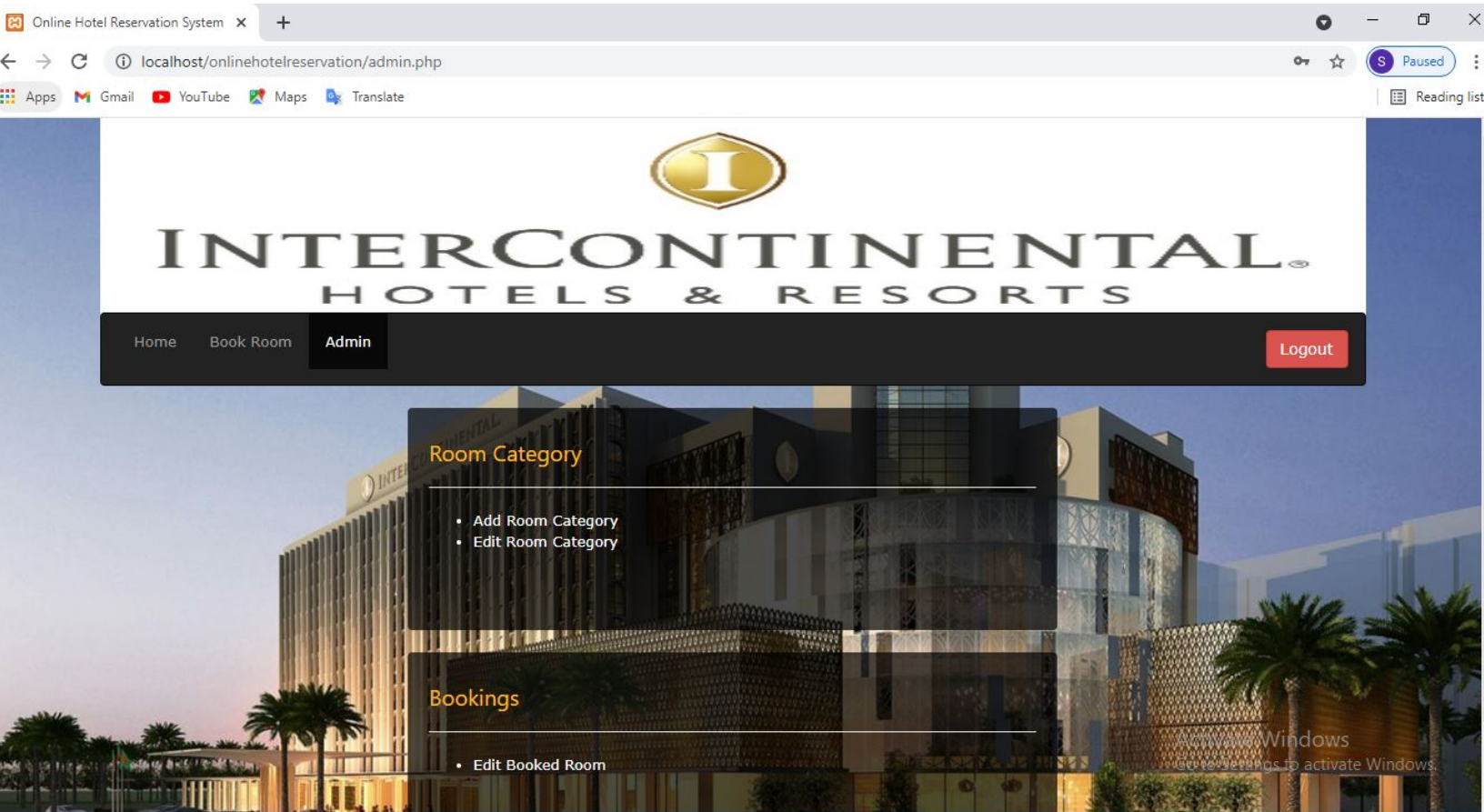


Fig. 4. Admin Panel