Proposal for the Restaurant Management System (Web)

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Figure 1: Keywords

Introduction

The proposed restaurant management system will be built in the spring boot framework of java. SQL is used as a database. HTML, CSS, and JavaScript are the other tools used to complete the project. This system is proposed to solve the problem that was in the traditional system. Security management and its availability will be always the first concern while deploying this system.
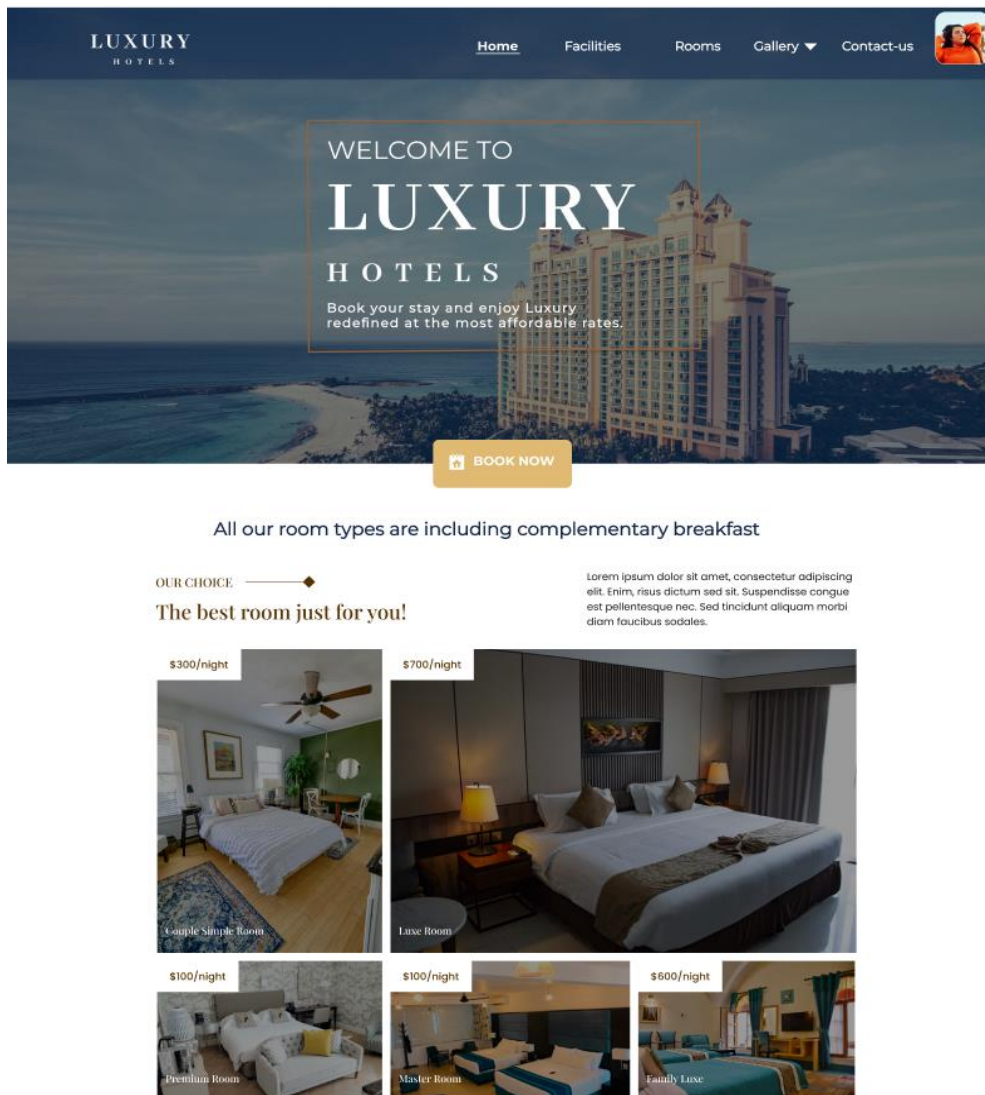

Figure 2: Home Page

Aim

To replace conventional methods of hotel booking with online systems using technology.

Objectives

- Provide people seeking hotel rooms with accurate information about available accommodations.
- Replace an outdated and ineffective paper-based system for hotel reservations and bookings with a much more productive automated solution.
- Allow for error-free and conflict-free room reservations.
- Give customers a high-quality experience with a user-friendly interface.
- The hotel's management should implement a feedback and rating system to raise service quality in the future.

Problem Statement

The old-fashioned way of running hotels was a very problematic practice since all the vital information, including customers, employees, and many other records was kept on paper. This was inconvenient because the data could be lost or damaged. In addition, guests must visit the hotel on their own in order to obtain information and make reservations, which wastes time and takes time. Clients' levels of dissatisfaction were high due to service delays and their inability to locate hotel room photographs, descriptions, or information. Customers used to be limited to having rooms only after making a reservation, but today they can simply and reliably access services related to hotels.

Solutions

A computerized hotel management system is suggested as a solution to the mentioned problems. This suggestion will aid in managing hotels successfully and efficiently. The numerous hotel duties and processes would be maintained and managed by the proposed hotel management system project. Additionally, the system is mainly in charge of managing hotels in the central part of the database. Additionally, it provides details on the different accommodation services and their current standing. Visitors can access the website and register with the program by offering the necessary data.

Important features

Registration:

The initial step in using our facilities is for individuals or customers to register, and only then are they processed to visit our room.

Online Booking System:

After successfully registering, users can access descriptions, images, and a wealth of other information about hotels and rooms so they can reserve the ones that are best for them.

Hotel services:

Customers may quickly order any items through it and get out details on the services offered by the hotel.

Nearby attraction:

Customer can easily find the location and photos of the nearby tourist destinations.

Ratings:

After staycation, customer can easily give hotel to the ratings according to their services which helps to hotel to raise their service quality in future.

Chatting bot:

Customer can direct ask their queries to the hotel management and request for laundry, pickup, order room service through chatting bot.

Google Map:

Customer can easily know the location and the direction of the hotel through google map

Tools and Technologies

1. Figma
2. Visual Studio Code
3. Sublime Text 4
4. MySQL
5. Spring boot
6. Xampp
7. GitHub
8. Teams
9. Visual Paradigm
10. Ma word
11. Canva

Methodology

An Agile methodology is an approach for managing a project by segmenting it into various phases called sprints. Each sprint ended with a completed product that requires ongoing collaborations as well as continuous improvement. Its unique features, such as problem identification, instant modification, and quick adaptation, have made it an efficient and flexible method of product development. Therefore, agile is preferred above other methods for enhancing customer satisfaction and product quality.

Working mechanism

The hotel management system enables the hotel manager to conduct all the hotel activities like making reservations, checking in/out guests, assigning rooms, controlling room rates, and billing digitally and in a more organized way. Hotel management system allows

customers to register and login to book the available rooms in a hotel using this project without any difficulty and allows customers to see the history of their reservations in their own account portfolio which helps to reduce the burden of searching the same room as before. Customers can also reserve vehicles to visit the nearby attraction with the guidance provided.

Conclusion

The hotel management system is a way of modernizing all the regular activities conducted in a hotel while also assisting guests with room selection and booking. By reducing time spent on admin tasks, the system helps to focus on more crucial activities like serving customers and developing a better connection with them. Since each user has a unique user ID and a password, there is no risk of any unwanted access, making this system completely secure. Therefore, utilizing this system will improve in customer satisfaction and reduce labour costs.
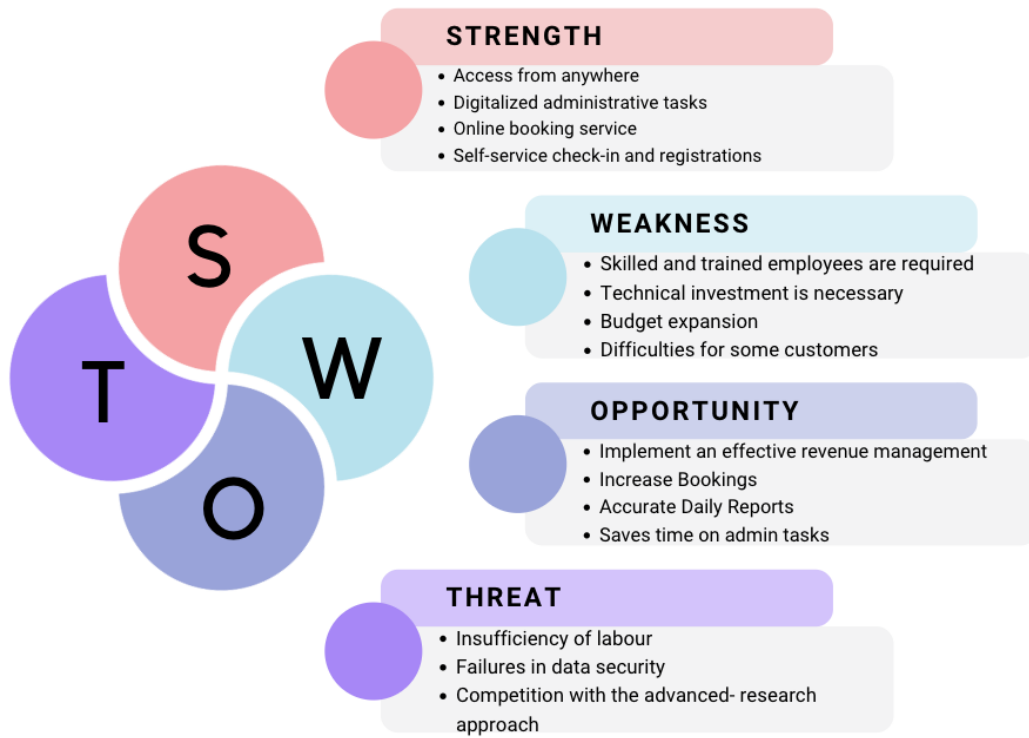
Appendix

SWOT analysis

STRENGTH
- Access from anywhere
- Digitalized administrative tasks
- Online booking service
- Self-service check-in and registrations

WEAKNESS
- Skilled and trained employees are required
- Technical investment is necessary
- Budget expansion
- Difficulties for some customers

OPPORTUNITY
- Implement an effective revenue management
- Increase Bookings
- Accurate Daily Reports
- Saves time on admin tasks

THREAT
- Insufficiency of labour
- Failures in data security
- Competition with the advanced- research approach

Figure 3:SWOT Analysis