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**Introduction**

A web-based application about browsing for hotel, booking them and find the best hotel. It helps users find the best hotel to spend their holidays in and makes sure they get the best offers. It could be used on any device (mobiles, computers, MacBook, etc.). As an administrator you can add any promotions and make special offers for special users. It will make booking easier for both users and administrators.

Online booking makes the users feel comfortable rather than go to the hotel and wait for their turns. Online booking facilitates that, you can open the website anytime and book your hotel.

When he/her successful sign in to the website he will be asked questions if he will book now or he is browsing only.

The website displays all the available rooms with their salaries and also the number of people can stay in the room. The user can search for anything he wants, he can write the accurate budget he wants only as he didn’t want to see all the available rooms. And determines how much rooms he want.

**Users in the system**

Our online booking application can contain three different of users:

* Administrator.
* Customer service team.
* User.

Our system allows online chatting between user and customer service team. It helps users to ask customer service team about any information about their hotels and about the booking.

**Functional Requirements**

Functional requirements include two definitions the first one is user requirements and the second one is system requirements.

**User Requirement Definition**

* Welcome message
* Tutorial
* Sign up
* Hotels reviews and rates
* Booking Room
* Cancel Booking

First, when the user opens the website for the first time, he gets a welcome message.

Second, a tutorial helps him to create an account.

Then, the tutorial shows him the search box, hotel reviews, etc. (he can reuse the tutorial anytime he wants).

Finally, it will show him how to contact the company for any questions.

The user can sign up to this website using Facebook or email. He will get a verification code on his phone number or email to activate this account.

Using the search history, the system recommends places similar to what he has searched for.

The user can use the most suitable payment method for him, such as: cash, PayPal, Visa Card or MasterCard.

When paying cash, he will need to visit the company.

Each user has a rank depends on how many times he used our website for booking for hotel. The higher the rank the more offers he will get.

After all of that the user book his hotel and waiting for the response from the hotel by accepting or rejected.

Also the user can cancel his booking any time he want just open the website and cancel his/her booking.

**System Requirement Definition**

* Desktop (windows, 7, 8, 10)
* MAC OS (6.2.8 or higher)
* Android (4 or higher)
* iPhone IOS (8 or higher)
* Chrome (22.0.1229)
* 2GB RAM
* Database (stores over 30,000 registered users)
* Server capacity (10,000 online users)

**Non-functional requirements**

* Response time
* Security

The data of the user will be added to Databases after 2 seconds.

At first if there are 500 users running the website at the same time it will run in 3 seconds but if it was above 500 it will take 7 seconds.

Tutorial pops will run after 5 seconds after the website opened.

After that, if he wants to continue and sign up, sign up page will load in 4 seconds and show him a form to fill.

Email and phone number are checked in the database to make sure they weren't used before.

If they weren't used before, he will receive a verification mail with code and SMS on his phone and email.

If something goes wrong these verification messages will be sent again.

Then, the website will check if the two codes are correct or not. If they aren't, he will be asked to enter his email and phone again.

Then, he will be moved to the bottom of page to enter his payment method details. He will enter card number, card holder name, and expire date.

The website will check if it exists or not. Then, the page will be refreshed and go back to home page if all data is correct within 3 second.

Then, the website will load in 5 seconds with security page to enter his number to confirm the purchase then the hotel booking is successfully booked.

If the server is above 10,000 users an alert message will show up that the website full and no one will be able to access the website.

**Conclusion**

As long as we are moving to technology era and using online service will be dominating in the near future, we created this website to facilitate booking and dealing remotely with the hotel. This will help in reducing time and effort, help the hotel to reduce head count and help the customer to complete their request in a very easy way by browsing the website at any time.

**Type of language**

Java language.