



# Hotel Booking System

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**Abstract:** The objective of this project is designing a system for running hotel management business. The flexibility of the system should be kept in mind in order to make the system more user friendly. We need to learn about the proper working and all the procedures of the hotels by visiting different hotels and gaining experience of the industry. The quality of the system depends on the diversity in the sources. This system will be providing all the information related to the availability and the amenities provided by different hotels along with precise comparison.

**Keywords:** Hotel, FlexibleManagement, Bootstrap, Flask.

## I. INTRODUCTION

### A. Aim and Objective of Project

The purpose of hotel booking system is to automate the existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirement, so that their valuable or information can be stored for a longer period with easy accessing and manipulating of the same. This proposes that efficiency of hotel organizations could be improved by introducing service-oriented operations with project management. This kind of integration would bring in innovation, proactive attitudes and regulated risk- taking need to pursue improvement and bring responsive changes. By managing each change as a project, all the hotels would surely increase their lifespans.

## II. RELATED WORK

1] Hotel Revenue Management – A Critical Literature Review

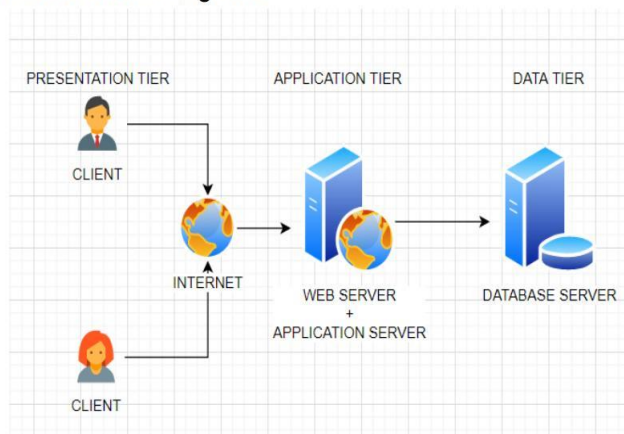
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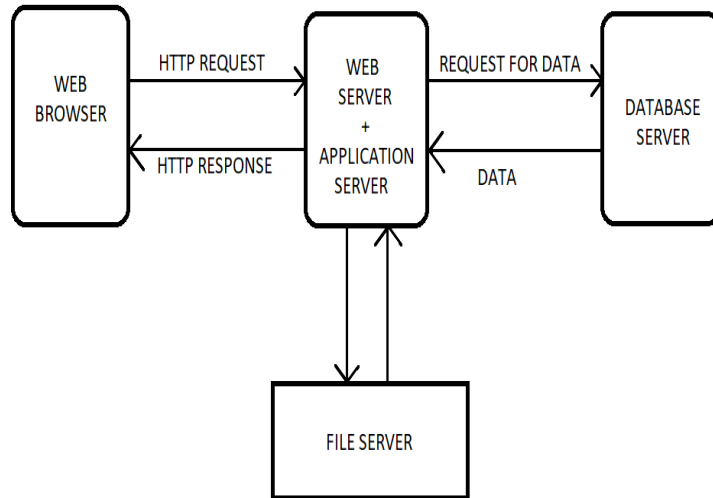
This paper represents a literature review regarding the major concept of hotel revenue management (RM) and current state-of-the-art of its theoretical research. The article focuses on the different directions of hotel RM research and is designed around the elements of the hotel RM system and the stages of RM process.

## III. MODEL ARCHITECTURE

### A. Architecture Diagram-

Architecture Diagram :





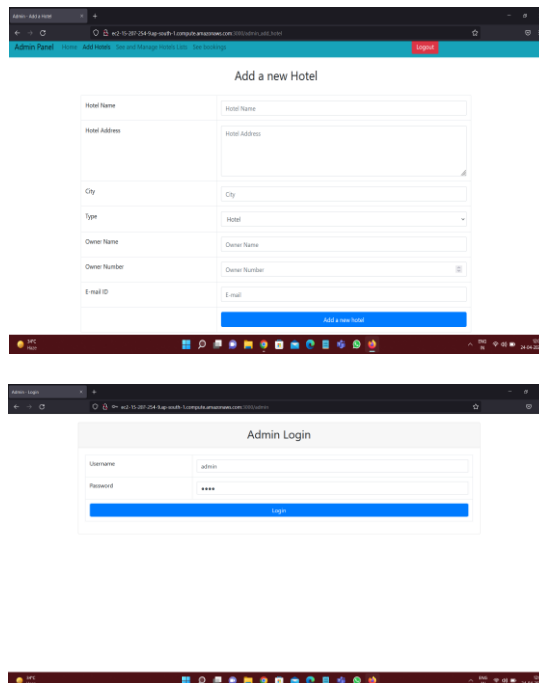
According to the above diagram the interaction will be between web user, web server, database server, file server.

#### IV. EXPERIMENTAL SETUP

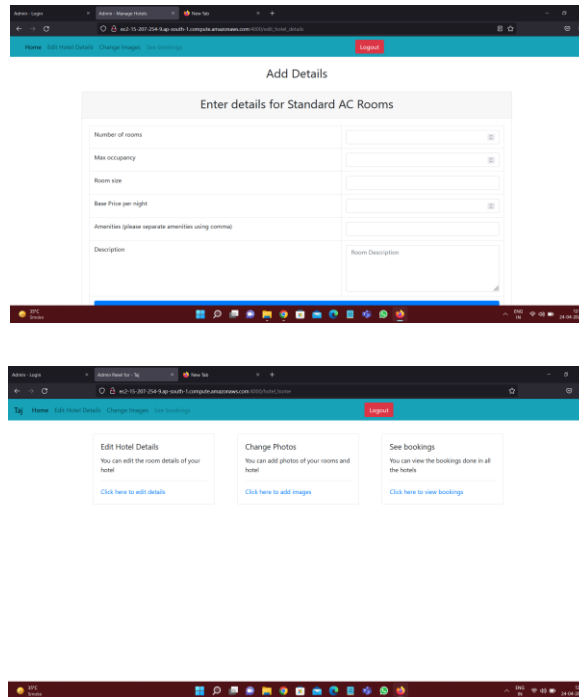
##### A. Experimental Tools –

The technologies we have used are Flask, Python, Bootstrap, AWS EC2, Dynamo DB.

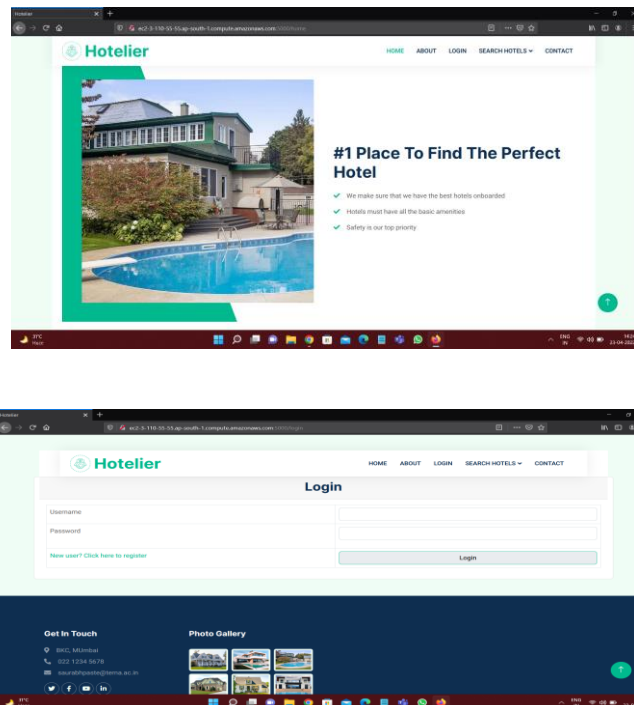
##### B. Experimental Result-



ADMIN: This is the admin page where the admin will be providing access to the hotel manager by uploading its hotel



HOTEL MANAGER - This is the page where the hotel manager would be uploading details regarding his hotel and rooms



USER- This is the page which shows how an user can select and choose the hotel and room of his/ her choice depending on the preferred location

**C. Qualitative Evaluation-**

We had asked users for qualitative analysis. In this analysis they were asked to rate the overall quality of this application on a scale of 1 to 10.

**V. CONCLUSION**

Thus, we have successfully completed to build a management system for hotel booking keeping in mind the feasibility, diversity and convenience of the users and hotels.

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