

Renting Hotel Rooms Using VR

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Abstract- This project introduces a Virtual Reality (VR)-based system for renting hotel rooms, enhancing the booking experience through immersive virtual tours. Unlike traditional platforms with static images, this solution allows users to explore hotel rooms in 360 degrees before making reservations. The system improves customer confidence, booking accuracy, and hotel engagement by offering a realistic preview of rooms and amenities. Integrating VR in hospitality aims to increase transparency, user satisfaction, and competitiveness in the hotel industry.

Keywords- Hospitality technology, Hotel booking, Immersive experience, Virtual Reality, Virtual tour

I. INTRODUCTION

In recent years, the hospitality industry has undergone rapid digital transformation to meet evolving customer expectations. One of the emerging technologies with the potential to significantly impact this sector is Virtual Reality (VR). Traditional hotel booking platforms rely heavily on static images, brief descriptions, and customer reviews, which may not fully capture the room's ambiance or layout. This often leads to customer dissatisfaction due to mismatched expectations.

This project proposes a VR-based hotel room booking system that enables users to take immersive 360-degree virtual tours before making a reservation. By offering a real-time, interactive view of hotel rooms and amenities, the system enhances transparency and builds trust between service providers and customers. The VR interface is designed to be lightweight, user-friendly, and compatible with affordable devices, making it accessible to a wide audience.

II. IDENTIFY, RESEARCH AND COLLECT IDEA

The foremost preliminary step for proceeding with any research work or journal writing is to **identify, research, and collect ideas** relevant to the chosen topic. This process involves a thorough exploration and evaluation of the research subject to ensure its feasibility and significance. The following steps are essential in this phase:

- 1) Wang, D., Xiang, Z., & Fesenmaier, D. R. (2016). "Assessing the value of virtual reality for hotel marketing." *Journal of Hospitality and Tourism Technology*, 7(3), 276-289.
- 2) Searching online for terms like "Virtual Reality hotel booking," "VR tourism experiences," and "immersive hotel room tours".

III. WRITEDOWNYOURSTUDIESAND FINDINGS

After collecting and analyzing relevant information about Virtual Reality applications in hotel booking, the next step is to clearly present the research work and findings. Two common approaches can be used to organize and write the study:

A. Bits and Piece together

In this approach, all the gathered information about VR technology, immersive user experience, and hotel booking systems is combined to form a comprehensive research paper. Existing studies on VR in hospitality serve as a foundation, which is then enhanced by the new insights and data gathered during this project.

B. Jump Start

This approach involves actively seeking feedback and suggestions from fellow researchers, industry experts, or mentors familiar with VR and hospitality technology. Continuous expert inputs help refine the ideas, improve system design, and validate findings.

IV. GET PEER REVIEWED

After drafting your research on VR hotel room rentals, have it reviewed by peers or experts. Their feedback helps improve your paper's quality and clarity. Even if confident, seek as many comments as possible to strengthen your work before publication.

V. IMPROVEMENT AS PER REVIEWER COMMENTS

Carefully analyze all reviewer feedback on your VR hotel room rental paper. Make necessary changes to improve

clarity, accuracy, and quality. If any comment is unclear, seek clarification before revising. Incorporating feedback strengthens your research and increases publication success.

VI. CONCLUSION

The integration of Virtual Reality into hotel room booking offers a transformative way for customers to experience accommodations before making reservations. Future work may explore adding interactive features, personalized recommendations, and expanding to other travel services, further enriching the hospitality experience.

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