**INTRODUCTION**

**Background of the study**

The “staycation” trend, which involves enjoying vacations at or near home, has now become the new norm in the travel industry [1]. A staycation is a stay close to home where you can relax and enjoy the opportunity to spend your free time. Staycation is an ideal choice for families and individuals who are unsure how to spend their day off [2].

QR codes have recently become popular for communication between individuals. The first developments of QR codes were implemented in the early 1990s by the Japanese company Denso, which specialized in the production of automotive components. The development of this technology is due to insufficient efficiency in the use of traditional barcodes, which can often be damaged and therefore lead to the unavailability of information [3]. A quick response code (QR code) is a two-dimensional barcode made up of black and white squares. Encrypt information like a URL or a text message. Scanning the QR code, the user can immediately access its contents [4].

One feature that users have increasingly been using in recent years is short messaging services (SMS). This system simplifies people's everyday lives [5]. SMS is a communication process by sending text between smartphones and has become one of the easiest and most cost-effective ways to communicate over long distances [6]. SMS notifications continue to increase worldwide. It has been introduced and used in several modern institutions where its services have proven useful [7].

Technology has been progressively in integrated into the tourism industry. Traditional staycation businesses have managed to create illustrated catalogs that offer potential customers a variety of different information. However, it is becoming increasingly difficult for the owner to remain competitive without an adequate booking system.

The goal of this study is to develop an advance booking system of staycation business with unique features like QR generation for gate pass of the clients in the staycation area and a real-time notification message that notifies the owner about the guest check in and check out.

**Significance of the Study**

This study focuses on automating the generation of staycation booking using advance technologies such as QR codes, SMS notifications and location services. The significance of this study relies in its multiple effects for the efficiency, guest satisfaction, safety, and overall ability of staycation establishments to adapt to modern technological trends. Through exploring the convergence of these technologies, the goal of the researchers is to revolutionize the check-in process, providing guests with a seamless and secure experience while providing owners and property managers with innovative tools to streamline their operations.

This study not only addresses immediate concerns around comfort and safety, but it also places the tourism industry at the forefront of technological advancements, ensuring its resilience and competitiveness in an ever-changing world.

This conducted studies will further open doors for future researchers to refine and expand studies in relation to booking system. This may serve as a source of information about an advance booking system.

**Objectives**

This study aims to develop and deploy a system that uses QR codes automatically generate gate passes for staycation reservation. It will also include location services and owner SMS notification The main goals consist of:

1. Develop a user-friendly interface for customer to book staycations and receive QR codes for gate pass access.
2. Implement QR code generation functionality to provide unique identifiers for each staycation booking.
3. Integrate SMS notification feature to alert staycation property owners about upcoming bookings and gatepass details.
4. Utilize location services to ensure accurate identification of staycation properties and streamline check-in processes.
5. Enhance security measures to safeguard customer data and prevent unauthorized access to gate pass information.
6. Implement payment system for reservation and generation of QR code for guest.
7. Conduct a testing to validate the system’s functionality, usability, and reliability.
8. Provide comprehensive documentation and user guides for both customers and property owners to facilitate seamless adoption and usage of the system.

SCOPE AND LIMITATION

This study aims to develop a system to enhance the staycation booking experience by automating gate passes via generation of QR codes, notifying owners via SMS, and guiding guests with integrated navigation. The system will streamline the check-in process for guests by providing a user-friendly interface, guests will be able to input their booking details and select accommodation, and securely complete payments with QR codes generated for gate passes upon confirmation. Additionally, the secure and diverse payment options, including credit cards, digital wallets, Real-time SMS notifications will keep property owners informed of guest check-ins and check-out, for management efficiency. Utilizing location services, guests will be able to easily locate and navigate to their booked accommodations for enhancing their overall experience.

However, the project may face limitations such as technical constraints regarding the accuracy and availability of Internet connection signals, unable to extend guests booking when there’s another booking is confirmed and challenges in user adoption for people who are not techy. Acknowledging these scope and limitations will guide the development process and ensure the successful implementation of the system and provide a truly enhanced staycation booking experience for both guest and property owners.

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