Virtual Property Renting System (Prvaas: The Journey)

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Abstract: *Prvaas OTA, the main purpose of this application "Virtual Property Renting System" is to provide a convenient way for a customer to book holiday, week-end gateway, flight, train, and bus for tour purposes. The objective of this project is to develop a system that automates the processes and activities of a travel agency. In this project, we will make an easier task of searching places and for booking week-end gateway, holiday, train, flight, or bus. In the present system a customer must approach various agencies to find details of places and to book tickets. This often requires a lot of time and effort. We provide approach skills to critically examine how a tourist visits and its ability to operate in an appropriate way when dealing with the consequences of tourism, locally, regionally, and nationally including visitor security and ecological influences with the API. It is tedious for a customer to plan a particular journey and have it executed properly. The project 'Virtual Property Renting System' is developed to replace the currently existing system, which helps in keeping records of the customer details of destination as well as payment received. Since the emergence of Internet, the information search and purchase behavior of hotel guests have changed significantly. Previously, guests reserved hotel rooms by phone, facsimile or letter to agents or hotels directly. However, the process involved is time consuming, indirect, and ineffective. By using the Internet, guests can reserve hotel rooms directly with their own personal computer, notebook, or laptop at anytime and anywhere. Besides, they are also able to receive instantaneous confirmations, view or change reservation details as well as cancel the reservation if necessary.*

Keywords: *OTA, Gateway, Bookings, API.*

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1.INTRODUCTION:

Prvaas Portal offer users the possibility to book their holidays online. Prvaas platform provide additional information like hotel reviews, travel tips, or package holidays. Hotels and tourism-related businesses can register to reach potential guests. To do so, information such as holiday properties availability and prices must be provided. If a stay is booked through the online travel agency, usually the homestay or tourism-related business must pay a commission fee. Nowadays most reservations are made via online travel agencies, transforming them into an important distribution channel for tourism businesses. Especially in the last-minute segment and because of the frequent usage of the smart phones. Today consumers are on-the-going, and the advantage of a booking engine and the reservation solutions provided by the OTAs is that it offers instant payment and booking confirmation. Many business organizations developed their own web site to simplify communication, sharing information, recruitment, marketing, fundraising, and many others. Internet provides the smaller, less well-known organizations with access to larger audience and as consequence a larger pool of potential customers. It also provides an opportunity for these organizations to increase public awareness without incurring further costs.

2.MOTIVATION:

The objective of this project is to develop a system that automates the processes and activities of a travel agency. In this project, we will make it an easier task of searching places and for booking week-end getaways, holidays, train, flight, or bus. In the present system a customer must approach various agencies to find details of places and to book tickets. This often requires a lot of time and effort. We provide approach skills to critically examine how a tourist visits and its ability to operate in an appropriate way when dealing with the consequences of tourism, locally, regionally, and nationally including visitor security and ecological influences. It is tedious for a customer to plan a particular journey and have it executed properly. The Voyage is required to maintain considerable information on the employees, their passports, the Visa/Work-permit related information, travel information, extensions etc. Presently these are maintained in Microsoft Excel form, in a standalone mode. There is a need to automate this function and merge it with the existing HR system of the company.
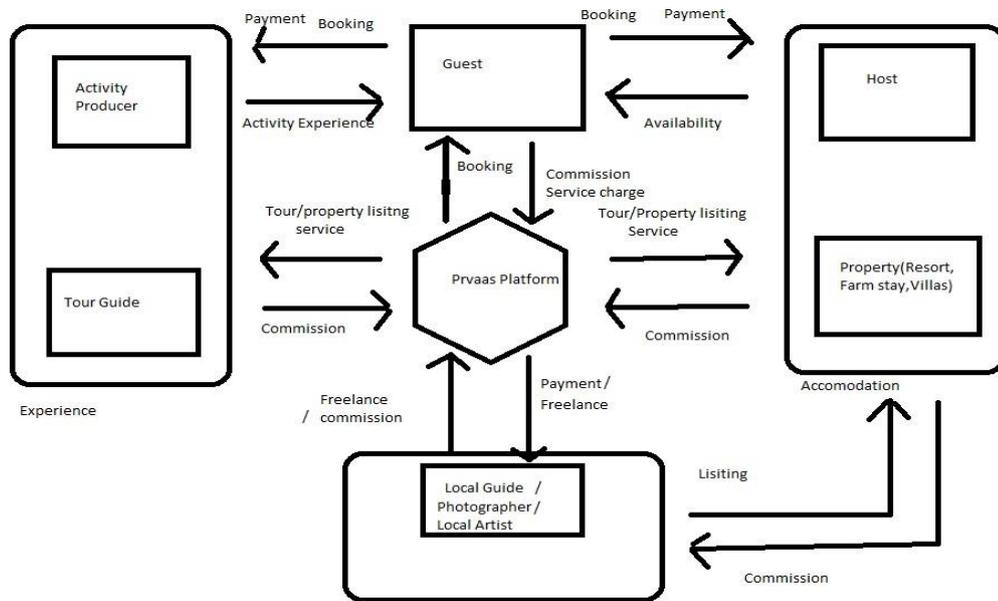
3.SYSTEM ARCHITECTURE:

Fig 1. system architecture

PROJECT MODULES

- User Module
- Administration module
- Vendor Module
- Tourism Place Module
- Chatbot Module
- Payment gateway module
- Real Time booking module

4.EXISTING SYSTEM:

A. Methodology (Architecture) website involves maintaining various operations of the hotel like Booking or reservations of the rooms, Cancellation of the rooms, Cash billing, Room service, Restaurant service, Restaurant billing, Total billing, Travels arrangement etc. The existing system is a manual one and there is lot of issues like erroneous data, slow process, lack of security etc. Finding out the final payment amount completely relies on the hotel manager and if he is absent, it takes a long time to find out the details during check out and is prone to errors.

5.PROPOSED SYSTEM:

B. Methodology (Architecture) we propose a portal that offer users the possibility to book their holidays online. Hotels and tourism-related businesses can register to reach potential

guests. To do so, information such as holiday properties availability and prices must be provided. If a stay is booked through the online travel agency, usually the homestay or tourism-related business must pay a commission fee. Nowadays most of the reservations are made via online travel agencies, transforming them into an important distribution channel for tourism businesses. Especially in the last-minute segment and because of the frequent usage of the smart phones.

6.IMPLEMENTATION :

1) What's an API?

An API (Application Programming Interface) is a set of functions that allows applications to access data and interact with external software components, operating systems, or microservices. To simplify, an API delivers a user response to a system and sends the system's response back to a user. You click "add to cart;" an API tells the site you added a product to your cart; the website puts the product in your cart, and your cart is updated.

The term "microservices" come up in relation to API. These, however, are not the same. Microservices are a style or architecture which divides functionality within a web application. While API is the framework which developers interact with a web application. Microservices can actually use API to communicate between each other.
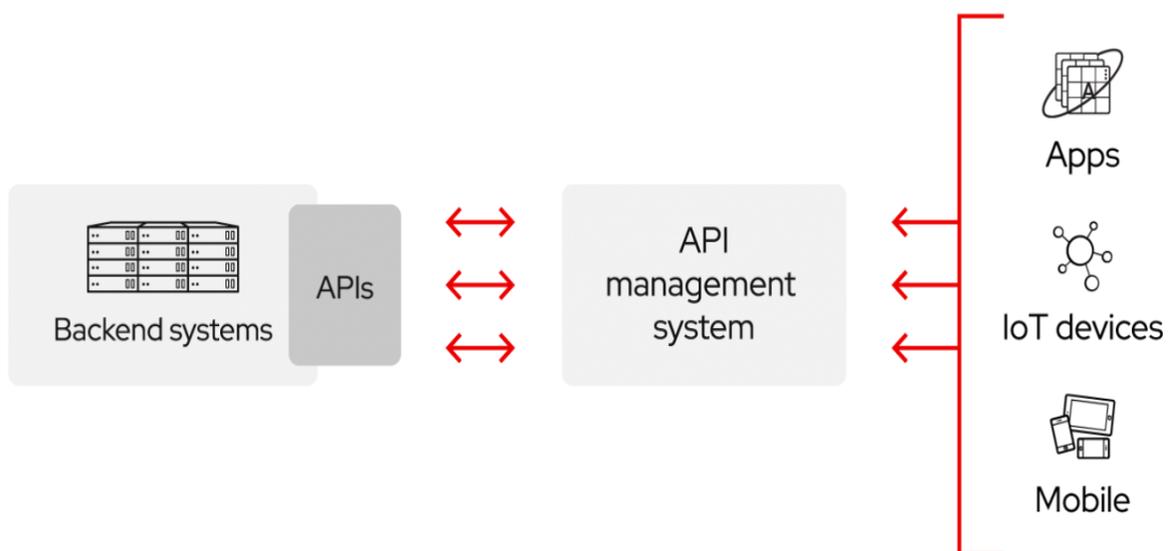

Fig 2. Working of API

2) What is Chatbot?

A chatbot is a software or computer program that simulates human conversation or "chatter" through text or voice interactions. Users in both business-to-consumer (B2C) and business-to-business (B2B) environments increasingly use chatbot virtual assistants to

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handle simple tasks. Adding chatbot assistants reduces overhead costs, uses support staff time better and enables organizations to provide customer service during hours when live agents aren't available.

When asked a question, the chatbot will answer using the knowledge database that is currently available to it. If the conversation introduces a concept it isn't programmed to understand; it will pass it to a human operator. It will learn from that interaction as well as future interactions in either case. As a result, the scope and importance of the chatbot will gradually expand.

Fig 3. Components of Chatbot

7. A. ADVATAGES AND DISADVANTAGES:

1. To reduce the system complexity

2. Reduces chances of human error

3. Leaks no information of the stored data to the verifier during the Booking process and assure data security.

B. OPERATIONS

1. Bookings from different locations at same time.

2. Data Stored in Virtual Databases.

3.Data storing and retrieving by APIs.

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8.CONCLUSION & FUTURE SCOPE:

Now we know what Prvaas is, how it works, and the benefits to the hospitality industry. The benefits of an online booking system range from reducing human error to improved efficiency, from making data collection and rewards management easier to giving you a competitive edge.

Prvaas is aware of that there are many applications like this but Prvaas will make a mark and here are some points which will be considered as Future scope:

- AI/IOT mobile key open room/parking.
- Mobile Check In/Check Out.
- Augmented Reality (AR).
- Local Guide on mobile application.
- Local body ties-up to generate more revenue.
- Expert Recommendation when you ensure what's available in area.

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