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An online AVS Tours and Travels System

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ABSTRACT: This project is a detailed review of tour and travel system. The main objectives of this system to know the package related to the trip and journey with best facility and current offer. Searching will be very easy. At a single click will be able to fetch the required data. Nowadays, there are multiple travel packages existing from the various websites and Apps to approximately all the locations over the world. A customer demonstrates that it is extremely complicated to search for the multiple of the packages as for significant websites, contact, and communication with the travel agents and more options that exists in it which is a passive method and time-consuming. This project will assist travellers to recommend the best Travel Package among all the packages relevant information such as image, hotel facility, Google map facility, transport facility and description about the places where they want to visit. The tour and travels management system will be helpful for tourism.

I. INTRODUCTION



Not that long ago in history, boys and girls, travelling started with a trip to a travel agent. You took home glossy brochures, and chose a destination, an airline and somewhere to stay. The travel agent printed you an itinerary, which was put in a folder along with your cumbersome flight ticket. It all took a very long time. Digital natives will find it hard to believe that 25 years ago, online travel didn't exist. The internet didn't exist! Even for mature mid-lifers, anything other than our instantaneous, people-powered online travel experiences feel like a blast from the past, a vague memory. People have always had a need to travel, be it to explore and discover new lands or for our own enjoyment. Tourism covers precisely the latter. We can trace the origin of the modern concept of tourism back to the 17th century, when young nobles from western and northern European countries made what was called the Grand Tour: a trip around Europe (usually covering France, Germany, Italy and Greece) with the main purpose of soaking up history, art and cultural heritage. It was considered a perfect way to be educated. By the 18th century, this custom was widespread among wealthier classes and it spread to other parts of the world, such as America. Similarly, religious pilgrimages that were already popular during the Middle Ages continued during this period.

The 19th century saw the creation of the first travel agencies. One of the pioneers was Thomas Cook & Son, which was the first to offer excursions and holidays for groups, which included transport, accommodation and food tickets, thus making costs cheaper. This would be the origin of what we now know as package holidays. In the first half of the 20th century, the tourism industry continued to grow thanks to the mass production of buses and cars. Coastal tourism began to gain importance and, after World War II, the Mediterranean coast quickly grew in popularity. Also, improvements in air transport (charter flights) as well as progress in labour legislation and a growth in social welfare led to a boom in tourism. The history of internet dates back 1950 and 1960s with the development of computers. In its relative short life,

it has helped spawn a number of business, one of it is Online Travel Agent (OTA). It has turned traveller's requirement into "One Stop Shops" for all our travel needs. The Online travel industry does not have an exact starting date. But we can say that over the past five years, the views and trends of the customers have changed towards their travel bookings. The traditional "brick and mortar" was changing into the online travel booking. Instead of the travel agents working on their trips, the travellers wanted to book and view their trip plan themselves. The travellers wanted to view the rates themselves. Travel portal is highly integrated booking engine connecting travel & hospitality industry suppliers with the buyers integrated form into single screen. The online travel portal integrates with GDS/CRS (Global Distribution System) and Non GDS suppliers like direct integration with Airline, Hotel, Bus Railways Insurance companies and other travel service suppliers.

II. RELATED WORK

Travel Portals basically provides the customers or booking agents with travel information, bookings, and all the required information which one may need while travelling. These travel portals fetch information from central servers which have granted them the specified permission and provide users with the cheapest fares and the best possible service, something which users desire all the time. Travel Portal can be classified in some major types of portal like Flight Booking, Holiday Packages, Car Booking, Taxi/Bus Booking, and lots more Users can simply search for hotels and book them online. They can view their account details, booking stage, seat number easily. Booking a ticket or cancelling a ticket becomes very simple. It is a proper way to do promotions of business and by online marketing you will extremely get more potential customers. It is quiet helpful for travellers to reserve their air tickets online or hire a car online for required time interval. Online Travel Portals offer the necessary foundation to build upon and expand growth within the company. In easy words it's a structured gateway that helps to structure the access to information found on the internet. Our professional web developers can deliver customized travel portals which go well with the provisions of the clients as well as the visitors.

III. PROPOSED METHODOLOGY

The proposed system is a web based application and maintains a centralized repository of all related information. The system allows one to easily access the relevant information and make necessary travel arrangements. Users can decide about the places where they want to visit and make bookings online for travel and accommodation. The propose system is highly automated and makes the travelling activities much easier and flexible. The user can get the very right information at the very right time. Customers can get the knowledge of the hotels and vehicles they are going to use in their trip prior to their starting of trip. This will the travel company as well.

Some features that we can implement in our project:

1. Augmented Reality (AR) - In recent times, augmented reality has become quite popular in the travel industry. AR provides a virtual tour with a 3D view of reviews for nearby location, WiFi hotspots, real-time weather forecast and more. The reason for the popularity is because it allows hotels and other businesses in this field to enhance the physical environments like local sights and hotel rooms so that customers will be encouraged to visit the place. Furthermore, another main reason for this adoption is that customers are in the habit of using their smartphones when they travel, so a step towards augmented reality apps is not a big one.
2. Virtual Reality (VR) - Virtual reality has become another attraction point in the tourism industry. It gives guided tours of any place in the world. This will especially help travellers explore small and less-known places. By giving a 360-degree view of the different locations, travel companies and agents can let customers explore the ground before booking and increase the level of trust simultaneously.
3. Blockchain - Blockchain in tourism is an advantageous combination as this technology can provide more security and transparency. For example, travel agents have to pass customer details to flight companies and hotels. The information passed between companies is tracked. Blockchain can make this secure by eliminating data tampering and fraud.
4. Big Data - Big data helps to make predictions about purchase behaviour based on past patterns, trends, and associations. It is the lifeblood for companies like Amazon, Facebook, Uber, and Netflix because they can figure out what you want before you know it yourself. Travel agencies and cruise companies can improve customer experience by handling big data. Through big data analytics, travel industries can customize the user experience, formulate pricing strategies, get insights into people's needs, improve loyalty programs and develop new marketing strategies.
5. Progressive Web Apps (PWAs) - Progressive web apps are nothing but modern web pages that also act as mobile apps. This is quite new in the travel market, but it is catching up quickly. These apps have the

usefulness of a native app but, when accessed through a browser, it does not require any downloading of apps which is a huge plus on conversion and usage ratio. If a user books a hotel through PWA, the user can access the information via the browser without internet connectivity too. Additionally, the PWA web page can be saved on the user's home screen and used as a mobile app. If you like to learn more about PWAs, click here. Here are some of the travel companies using PWAs.

- Barcelona
- Cool Cousin
- Jumia Travel
- Make My Trip
- Ola
- Redbus
- Trivago
- Wego

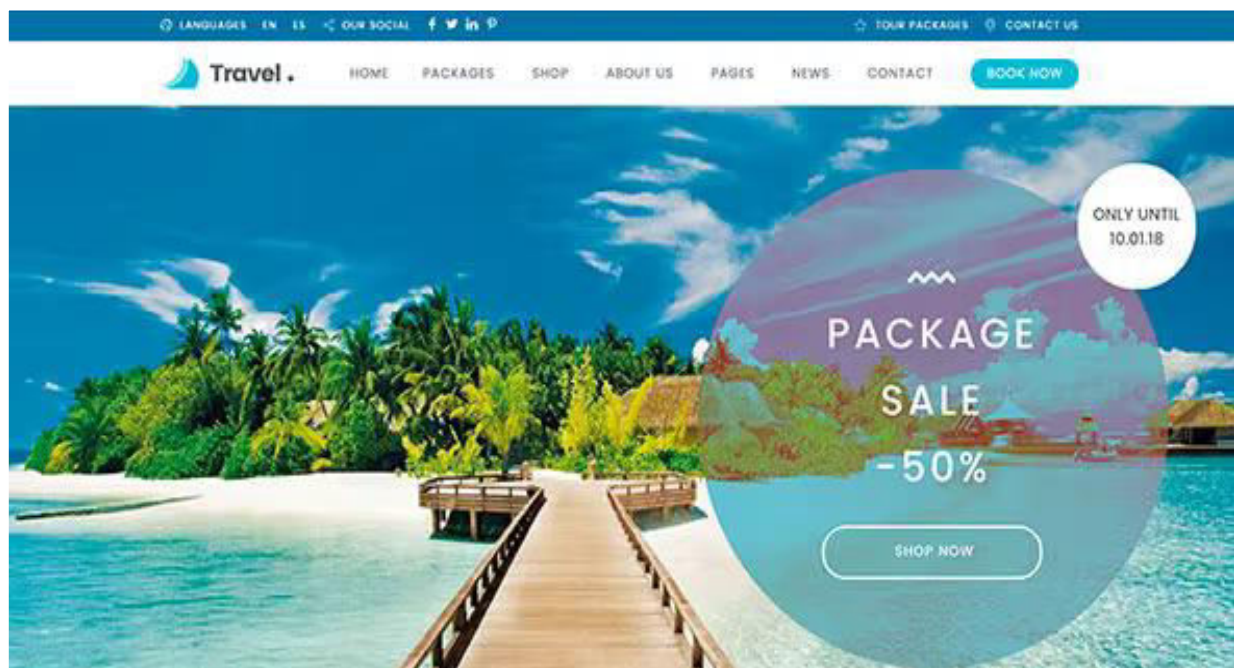
IV. DISCUSSION AND EXPERIMENTAL RESULTS

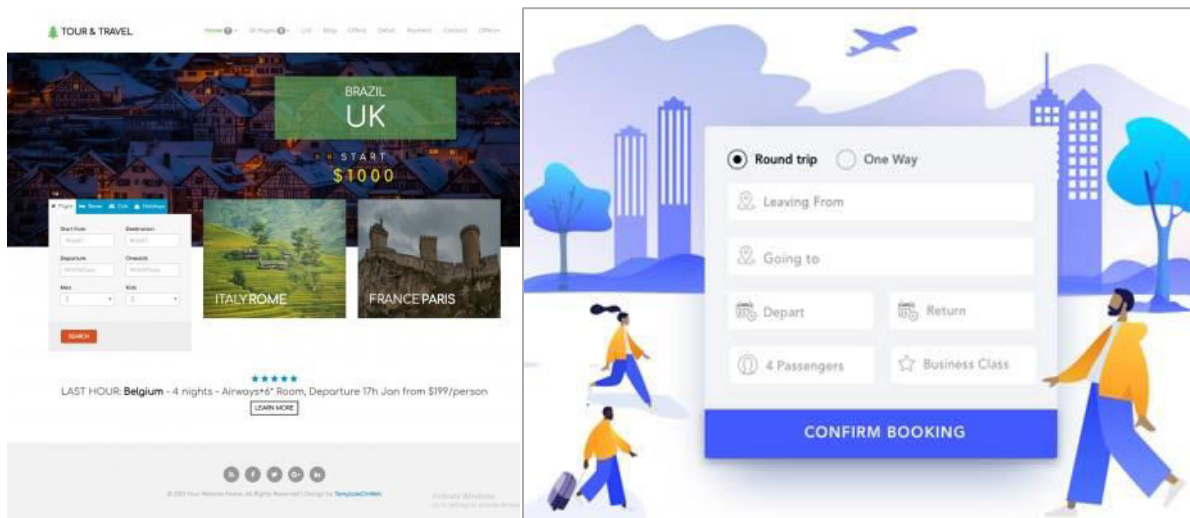
While planning, all the members came on google meet and discuss what would be the functions might be suitable for our application. Everyone recommended some innovative features and their structures. Once the features were discussed, we disbursed the coding among us. One of us was chosen to the complete coding and database and after accumulating the assigned responsibilities, might further pass on to other members to check the coding part.

Although, due to unexpected instances, we had to discard some features that didn't seem as vital because the now remaining ones. There were also adjustments made for some pages that have been originally meant to be designed in a special manner. The principal person did a part of the coding, collected coding from rest individuals, created database for required sections, completed the project and recorded it.

All the individuals have been made aware about the basic functionalities regarding our project.

There were not any implementations of simulations. Therefore, here are some rough sketches of our undertaking made on Photoshop, being presented as a shape of experimental outcomes.





V. CONCLUSION AND FUTURE WORK

Here we have presented the design of a tour management system that can provide the users with the required tourism guidance required anytime and anywhere. This is a combination of smartphone and Internet services. The tour management website contributes a reasonable way for the users to schedule their trips, since it provides detailed information about the tourist places including description, image and map. This method includes various features/services such as delivering customized packages, the distance between the source and destination location, Google maps, online ticket booking, etc. This process achieves its main goal by pertaining to real-time data.

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