

Article

An Innovative Travelling Planner Assistant using KNN Algorithm

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How to cite this article:

Gayatri B, Pawar N, Priyanka A, Shinde V et al. An Innovative Travelling Planner Assistant using KNN Algorithm. *J Adv Res Info Tech Sys Mgmt* 2019; 3(2): 1-3.

Date of Submission: 2019-12-05

Date of Acceptance: 2019-12-19

A B S T R A C T

Tourism is an significant economic engine. According to the World Tourism Organization (UNWTO), the international tourism has grown steadily over the last sixty years; where it constitutes one of the leading sectors with the fastest growing in the world.

“Tourism has become one of the main items of international trade. Today, international tourism is become the fourth largest source of export revenue after the oil industry, chemical and automotive. To increase the source of income in this tourism industry we to need to develop the proper system to travel planning system. In todays travel planning system The most common problem a tourist faces is of budget. While traveling they are not sure how much money they have to take with them, as having more cash then required or heavy amount of cash is difficult to handle. They are afraid of theft or loss of money. And another common problem while travelling to some place is where to stay or how to communicate at that local place and where to eat. This business plan includes development of business model, mobile application with proposed feature and also its financial sustainability plan.so there is need to develop the system which provide a solution to this in only one domain. With all the information instantly available, people can look up for exactly what they want without having surfing, browsing web application or going around in circle. As per business perspective, all the operations-information, booking, invoicing, billing and every other things is automated leading by only one system. There is no need to search or to book for different website and make a plan for the trip.

Keywords: Information, Booking, Invoicing, Billing

Introduction

In the past few years, technology has played an equal and significant role in every industry whether it's travel or any other industry. The technology has brought major revolution in travelling business. It has changed the face of tourism, making effortless for everyone to book a memorable vacation with few simple steps with the help of mobile apps. Due to a dramatic increase in the Smartphone users, the face of the many industries has changed. There are many

mobile applications are available in the internet market from where you can easily plan your trips. The advent of the mobile app technology has taken. Traveling is one of the most common way to spend the holiday. Information about the travel destination, infrastructure, facility, event and promotion should be enhanced and easy to be retrieved in order to help the traveler in preparing the enjoyable trip. Based on the data from Indonesian Ministry of Tourism and Creative Economic, the number of domestic tourist

in Indonesia has increased by 9.07% in 2013.¹ Besides being the income sources for foreign exchanges, growth in this industry can also create many opportunities such as manpower demand and can stimulate the economic life in the travel destination.^{2,3} One of the growth indications come from technology support. A study⁴ stated that it was clear that the daily lives of today's people are influenced by the Internet and Social Media. By implementing the technology in this sector, the tourism industry can do online promoting and communication through websites or other digital platform. Many governmental or private organizations build their own digital marketing so the traveler can get enough information to plan his/ her trip. The biggest question to be answered when planning the trip is about the travel destination, especially when he/ she visits the destination for the first time. The writer uncovered the business opportunity to solve this concern by providing the trustworthy information through by developing the mobile application.

The potential users of these applications in the field of transportation include transportation agencies for travel data collection, travel information, ridesharing and traffic safety. The tourism Business Include:

Literature Review

According to Indonesia Republic Law No. 10 of 2009,⁵ tourism is a wide range of tourism activities and supported by various;

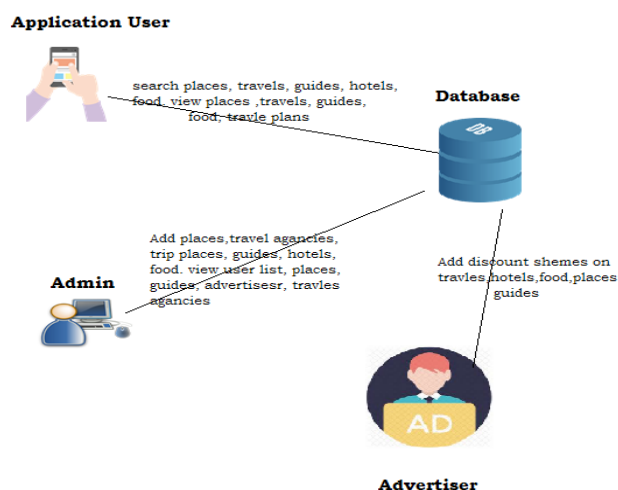
- Tourism Attraction.
- Tourism area.
- Travel services.
- Tourism guide service.
- Tourism information service.

Today, mobile apps play an important role in every business domain as well as in personal life. Travel & tourism industry is no such exception since a huge part of its success rely on these mobile apps. The days of paper maps, guidebooks and other stuff are gone and replaced by interactive & amazing mobile. Apps for travel & tourism industry that come with many functionalities. Mobile application for tourism industry has become a one-stop solution for its users as you don't have to have different portals for car rentals, ticket booking, insurance, travel related shopping etc. You get everything related to travelling at a single place.

Proposed System

This mobile application business idea will focus on helping the traveler to plan their trip. The main user of this application will be traveler, advertiser and tourist attraction, while the revenue stream will come from advertiser, tourist attraction. The main feature of this application will be the trip. suggestion that shows information and recommendation about the destinations facility such as

hotel, restaurant, tour attraction, news and event. The development of this application aim to help the traveler by easier and localized trip planner. Key Partners for this business plan was tourist attractions and travelers community that support this business for the content of application. Key Activities explain about the main activities on this business, it contains design the content, develop mobile application and promoting application on public. Key resources for this business was for software developer who developed the application and the content provider who maintained the content on application. Value preposition or revenue channel for this business was from advertising and premium services for tourist attraction. The customer relationship for this business was traveler's community who support the content. The channels for this business were from internet and traveler community. The customer segments divided into 3: Travelers who used the application, advertiser who put advertising on application and tourist attraction for support content on application. Cost structure for this business was for developed application, provided contents on application and for promotion the application. The revenue streams or who contribute for revenue in this business was from free user, advertising and tourist attraction fee who apply for premium service.in this system there are booking is available for every hotel registration, ticket booking, restaurant booking the system also suggest about the nearest travel places for the tourist which will then can visit as per their plan system will generate the trip plan for the tourist. If user want to go for the destination then it will show all the restaurants ,hotel details which is nearest to that location user don't need to go for different websites and book any ticket or rooms. All are available in one roof.



Proposed System uses Flow which Includes

- Add places, view places, add travels view travels, view users, add hotels, view hotels
- Plan your trip/ fill form, submit form and view form

- Add/ view facilities available in hotel, travel agencies
- Add/ view food menu
- Add/ get travel tips
- View tourist attraction (best places for trip)
- Add/view info about travel events, travel related news, discount schemes
- View/ edit profiles
- Add/ view travel guides, trip places, travel agencies, hotels
- View registered users and advertisers

Conclusion

Considering the result of analysis, this mobile application business idea will focus on helping the traveler to plan their trip. The main of this application will be traveler, advertiser and tourist attraction, while the revenue stream will come from advertiser, tourist attraction. The main feature of this application will be the trip suggestion that shows information and recommendation about the destination's facility such as hotel, restaurant, tour attraction, news and event. Thus, in first module in this system we develop module that register for various application and database using Apriory Algorithm is add to it. The development of this application aim to help the traveler by easier and localized trip planner.

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