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Intelligent Tour System

Miss. Nikita Gharate[1], Miss. Neha Aher[2], Miss. Mansi Chandwadkar[3], Miss. Sayli Godse[4]
[1, 2, 3, 4]*Computer Engineering, Savitribai Phule Pune University Late G.N. Sapkal College of Engineering, Nashik, India*

Abstract: ***The Smart tour app and website presents category classification of mobile travel applications accessible at the moment for tourists in application stores for most popular mobile operation systems (Android). The most interesting category is "Travel Guides" that combines "Information Resources" and "Location-Based Services" category.***
The information is given by the users who visited various places and hotels and also will rate the places and hotels. According to rating other user will decide whether to visit the place or not and customize his tour. The objective of the travel and tourism management system project is to develop a system that automate the process and activities of travel and the purpose is to design a system using which can perform all the operation related to travelling.
Keywords: Intelligent touring system, Android application, Web application, Artificial intelligence.

I. INTRODUCTION

Over the years, tourism has continued to gain massive interest at a global scale. It is a major foreign exchange earner for a good number of advanced and emerging economies. It is also true that information explosion makes it cumbersome times to access relevant information to enhance decision making. This has given rise to the emergence of intelligent systems or mechanisms that facilitate quick access to relevant content found in the Internet. For developing countries like Nigeria, tourism is one of the untapped but potentially big income generator. There are about 142 tourist destinations that spread across the 36 states of the federal republic of Nigeria. Whereas some exist naturally, others are manmade. In this era that has witnessed rapid advances in information technology, information overload has become a serious problem to those seeking for information online. Recently, intelligent search mechanisms have been deployed on the web that shows that the problem of information overload can be partially eliminated by providing a platform with more intelligence to assist tourists in the search for relevant information. Google.com is an example of an intelligent search engine that helps users with information and another class of intelligent system that has proven relevant in addressing the problem of information overload are recommender systems. In the aspect of tourism, Internet and web technologies have made more readily available information on tourist locations, accommodations, transportation, shopping, food, festivals, and other attractions, thus improving tourism experience. Intelligent Tutoring Systems (ITSs) are instructional systems that use artificial intelligence (AI) techniques in computer programs to facilitate learning. These systems are based on cognitive psychology as an underlying theory of learning, which deals mainly with issues such as knowledge representation and organisation within the human memory as well as the nature of human errors [Shute & Psotka, 1996]. The intelligent tutoring systems adopt a mixed-initiative teaching dialogue, which allows the system to initiate interactions with the learner, as well as interpret and respond meaningfully to learner-initiated interactions [Garito, 1991; Beverly Park Woolf, University of Massachusetts, 1998].
The goal of this research is to design and implement intelligent platform that will aid tourists in Nigeria to have access to information on tourist locations thus help fasten their decision making process.

II. LITERATURE SURVEY

A. The Application of Intelligent Tourism Mobile Client Based On Ontology

This paper proposed the application of ontology theory in the research of intelligent tourism mobile application client. The adopted method (ontology) helps to structure the kind of information given to tourists thus eliminating room for information ambiguity. The strength of this research work is based on the fact that it makes use of an organic combination of the major elements that are closely linked to tourism, and infiltrates them it into every aspect of tourism which produces an effective, intelligent and efficient tourism information system.

B. Destination Information Management System for Tourists

The system was designed for tourists taking Nigeria's tourism into consideration. This was to provide tourists with intelligent interaction based on virtual community concept of tourism and locals that have common interest theme. The system aims at bridging the gap; which is the lack of interaction that exists between tourists and locals at a particular destination. The system was designed using Java Applet (Netbeans IDE 6.1), HTML, PHP and Java script whereas MySQL was used to design the database.

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C. Yukiko Kawai, Jianwei Zhang Hiroshi Kawasaki "Intelligent Tour System"

Proposed a travel propose a system by considering both social information and GIS. This article has conducted in-depth research on information recommendation and filtering technology. The traditional travel recommendation system can be considered as one of the information recommendation systems. Usually, the shortest path of time or distance can be calculated. Recently, travel recommendation systems for more general purposes have become an important research topic. System proposes an efficient travel route search system, which not only recommends a simple route to connect multiple tourist attractions, but also recommends a beautiful road. The system focuses on the visibility of scenic spots between one attraction and another, this is a major fact in selecting driving routes, but is not considered in the available way of tourisms proposals. To automatically retrieve tourist attractions, use Web information to propose personalized tourist attractions recommendation technology. Although in some areas, databases of famous attractions already exist and have been published, these areas are limited and often outdated.

D. Y.-T. Wen, K.-J. Cho, W.-C. Peng, J. Yeo and S.-W. Hwang "Intelligent Tour System"

Proposed a keyword-aware travel route recommendation system. Given the huge number of registered data and photos in social media, it intends to discover travel experiences to promote travel plans. The system observes that when planning a trip, the user may have some keywords about his/her preferences in his/her travel. In addition, a variety of travel routes are also needed. In order to provide a variety of tourist routes, the system claims to extract features of more attractions (POIs). Therefore, proposed system is a keyword-aware Skyline Travel Path (KSTR) framework that uses knowledge extracted from historical flow information and users social activity in social sites. Explicitly, the system analyse the "where, when, who" problem by characterizing the geographical movement patterns, time effects, and social impact. Then a keyword capturing step (phase) is proposed to automatically classify the POI related tags into different types so as to effectively match the query keywords. The route reconstruction algorithm is further designed to build a route candidate that matches the user provided input. Provide diversified search results and explore the Skyline concept to arrange routes. In order to find the accuracy of given algorithm, extensive experiments were conducted on location-based real social network datasets.

E. T. Kurashima, T. Iwata, G. Irie, and K. Fujimura "Intelligent Tour System"

Suggest using geo-tags to recommend travel routes in photo-sharing sites. This article discusses the capability of the system to create geo-tagged photos that enable people to share the personal experiences as visitors at specific locations and times. Assume that the collection of geo-tagging photos for each photographer is a series of visited locations. The photo sharing website is an important source for collecting the location history of tourists. With the help of location information system can easily find out the landmarks associated with the travel route. Here the system contain a routes proposed method based on photographer history mastered by Flickr is proposed. The recommendation is performed by the photographer's behavioral model, which count the speciality of photographer's landmark in each place. The system combines user preferences and current location information into a probabilistic behavior model by combining topic models and Markov models. The system demonstrates the effectiveness of the proposed method using a real data set that holds information from 71,718 photographers from the United States about the accuracy of the prediction of travel behaviour.

III. LIMITATIONS OF EXISTING SYSTEMS

A. In Paper [1], The System doesn't allow the user to use this application through another source like web application . weakness is based on the fact that it is mobile-based and hence accessibility is limited to mobile device users . Hence we are providing user web based application as well as android based application so it will more efficient user to use this application.

B. In Paper [2], The advantages of the system is it is user friendly, interactive, supports security and compatible to various web servers but the system lacks intelligence in providing information to tourists, thus reducing the stress at which tourists seek for information on the system.

C. In Paper [3], The existing system, restricting users to limited query options such as locations, activities or time periods. Hence we are providing more query option so we can manage to provide more accurate suggestions based on users behaviour and requirement.

D. In Paper [4], There is no system that can manage multiple users searching for the specific destination or shopping places or food places and in the booking of parking slot or transportation there is high probability that same slot or transportation will be assigned to multiple users. To tackle this, we will be blocking the slot for some time and based on user behaviour the slot will be unblocked.

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E. In Paper [5], query results of existing travel route recommendation services usually rank the routes simply by the popularity or the number of uploads of routes or destinations because of this user can have the suggestions that doesn't fulfil their requirement Hence we are providing the review section so it can be more easier to user to find their perfect and sufficient destination .

IV. PROPOSED SYSTEM

This project has a login page which allows only the registered user to login and thereby preventing unauthorized access. This system can be used to view the location view in map that the user wishes to reach. The user can also find the paths to follow to reach the final destination in map which gives a better view to the users. Since the location can be viewed in map, the user can even zoom in and zoom out to get a better view. The usage of this application greatly reduces the time required to search for a place. The application also leads to quicker decision making with respect to places to visit. Intelligent tour system application is specially design for the customer who loves travel and provide easily access the relevant information and make necessary travel arrangements. It also help in finding the best suggestions about hotel, food places, shopping places, event places and book them as per customers requirement. The main advantage of this application is that it will ensure accurate working of the tour system which is done automatically and it will helpful for finding places like shopping ,food, event , parking slot, transport vehicle booking which is time consuming.

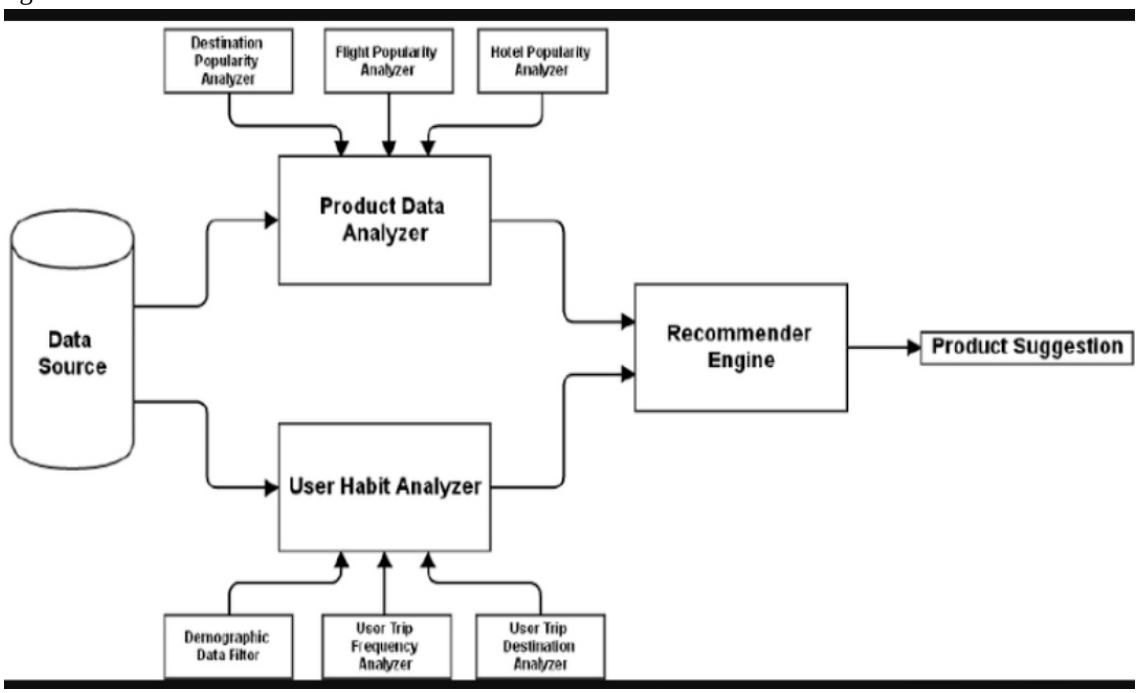

Fig. System Architecture

V. TECHNOLOGY NECESSITY

First, we have done problem analysis and we recognize the tourist problem from there traveling experiment so we can overcome the issues that they face on their travelling basis and using our engineering skills, we have discussed and planed the solution to the problem by creating an android application. Different problems were faced while working on the solution ,for which we conduct research on problems of our project, such as collecting information on different websites about what they do exactly, which facility they provide, what are there disadvantage and what are the feachers we have to implement based on that. we have used English language so it can be understandable by everyone. We can use different languages in the future implementation so it can be more adaptable.by upholding the ethics of application use, this application can be used by everyone. this software created by cooperation and it so environmentally sustainable because it does not exist in physical form. to plan and built this project, we followed software engineering principles. we used the algorithm for concepts and languages for programming such as java. we followed the life cycle of software development to create our project. We also mastered the important aspect of working as a team after undertaking all of the these tasks and completing all the procedure.

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This system can provide many advantage:

A. Track on Departure Time
B. Better Handling Of information
C. Reduce Human Error
D. Provide Digital travel Assistance
E. In simple words, the android app and website is Faster and more accurate Decision to the user and also time-consuming application.

VI. FUTURE RESEARCH

It is worth mentioning that this research work is open for further enhancement, with the expectation that it becomes more robust and better enhanced; covering every single tourist site in India. In addition, certain constraints, such as inadequate information sources for each of the tourist locations in India, some features were not included which would have made ITS a more robust management system

Some of these features include the following;

A. An improved system should incorporate every tourist site in India for better insight on available tourist attractions.
B. Provision of advertisement platform so that tourists will be able to get latest information on all the tourist locations in India.
C. Provision of content scheduler to eliminate out-dated information.

VII. CONCLUSION

In Conclusion ,India is a country where in a few days holiday, you can enjoy a lot. The problem is that we although having many websites application but they offer different kind of services. The customer are enjoying a lot but there is a lack of relationship between travel agency and customers & hence we are establishing that relationship by caring and serving all customers in the same manner that we wish to be served. this software will solve many problems in India relating to management of product and information pertaining to tourism. Tourists will get acquainted with all the tourist sites in India and information pertaining to those sites without physically extracting information from people or having to travel long distances to see what the location has to offer. With the availability of the Internet, users have access to this application; hence they are empowered with current and relevant information pertaining to tourism in India. The application will go a long way in assisting tourists in decision making, and also as a source of revenue to the country. ITS will make tourism round the country fun and easy because of easy access to relevant information.

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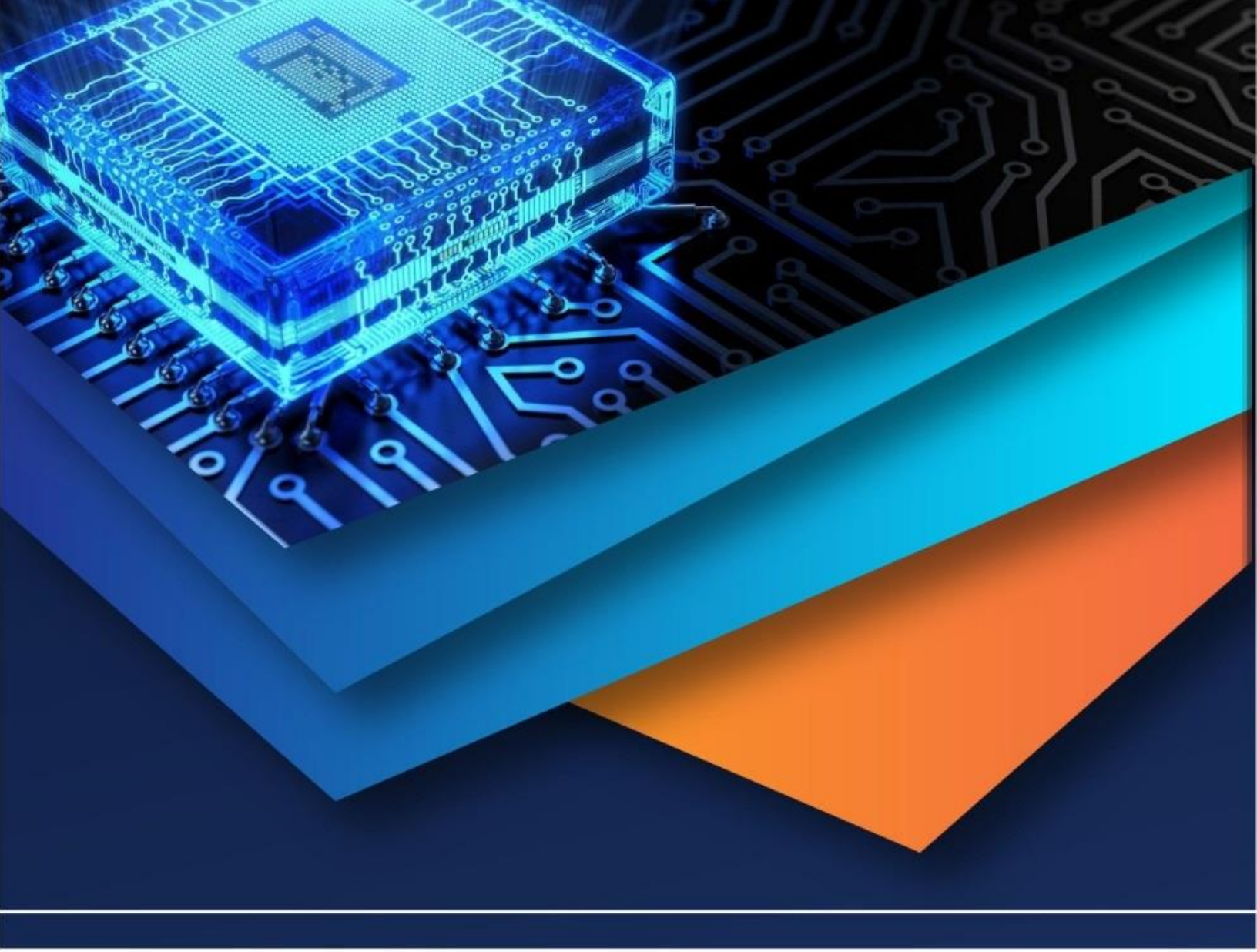

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