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Survey Paper on Automated Tour Planner

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Abstract: We propose an algorithm called the Balanced Orienteering Problem, to design trips for tourists. This algorithm, combined with a recommender system for Travel and tourism management system is used to book a tour from anywhere in the world by a single dynamic website which will help the user to know all about the places and tour details in a single website. The admin can add packages to the website from a certain travel agents and hotels by create a tour page. Then the users can sign in and book each project, they can be confirmed by the admin in them manage booking page. The user can see the confirmation in my booking page. It is an easiest platform for all travellers which can be easily booked and know the all details. Tour Management system is a dynamic website for tourism business. It is dynamic and responsive web design. It is also called travel technology solution for agencies tour operation. Nearly Everyone goes on a vacation for this 'a Tourism management system' would play a vital role in planning the perfect trip.

Keywords: Automated Tour Planning,, soft and hard constrains

I. INTRODUCTION

The development of Indonesian tourism from year to year continues to grow and even the competitiveness of Indonesia's tourism sector continues to increase. Internet and information technologies have changed the behaviour of the customer. People always use their gadget to use everything in daily life. We proposed a smart trip planner advisor platform to help all tourists create their itinerary based on their preferences. In tourism, these technologies have played a role to give new experience for tourists instead of information or competitiveness of every tourism organization. While tourists rely more and more on the Internet to find new places to visit, it is still a difficult task to find the appropriate place, especially if the tourist is not familiar with the area. Trip planning problem is not new; in fact, it has been addressed since the 1980s [1]. There exist different approaches to solve the tour planning problem (TPP), one of which is known in the literature as the Orienteering Problem (OP) [2]. Even though OP has been addressed and implemented several times during the last decade, it is still not widely used in the tourism industry [1]. In this paper, we introduce a new variation to the orienteering problem algorithm. Although the proposed algorithm is similar

II. SYSTEM ARCHITECTURE

In previous chapter, an idea about how the project is started after studying various previous works and the techniques that will be used to implement the project are discussed. The review gives a brief idea about the papers considered and analysed & the summary gives the brief description and the observations regarding the same. This chapter includes the software requirements specifications in detail including the functional & non-functional requirements along with the system requirements.

The block diagram in Fig. 1 gives an overview of the approach towards building a basic version of the intended features for Tour planning.

Admin

In this module, the admin has to log in by using valid user name and password. After login successful he can do some operations such as View All Users and Authorize, View All booking plans Website and Authorize, View All plans and Bookings, View All Keyword Search Details, View All plan Search Ratio, View All Keyword Search Results, View All Results.

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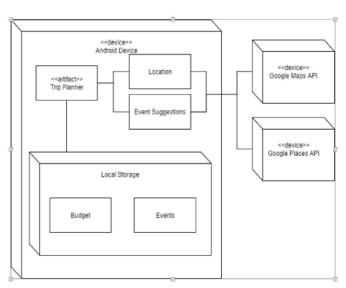


Fig 1 : System Architecture 1

View and Authorize Users

In this module, the admin can view the list of users who all registered. In this, the admin can view the user's details such as, user name, email, address and admin authorize the users.

View Charts Results

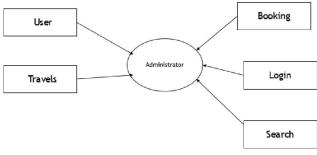
View All Search Ratio, View All Keyword Search Results, View All Review Rank Results.

End User

In this module, there are n numbers of users are present. User should register before doing any operations. Once user registers, their details will best or to the database. After registration successful, he has to login by using authorized user name and password. Once Login is successful user will do some operationlike Manage Account, Search booking by keyword and Purchase, View Your Search Transactions, View.

2.2 Data Flow Diagrams

In Data Flow Diagram, we Show that flow of data in our system in DFD0 we show that base DFD in which rectangle present input as well as output and circle show our system, In DFD1 we show actual input and actual output of system input of our system is text or image and output is rumour detected likewise in DFD 2 we present operation of user as well as admin.



III. LITERATURE SURVEY

1. Data mining technologies are used to uncover relationships between item sets in a database, and an itinerary planning system is designed to provide personalized travel plans. Users can specify points of interest to visit in each destination, and association rules are used to find the most frequent places visited in each destination.

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- 2. Indonesia's tourism sector is growing rapidly due to the country's high economic growth, which has led to increased purchasing power and a rise in domestic tourism. Taiwanese citizens are paying more attention to their leisure time and prefer self-planned trips, which require time and effort. A system that arranges personal travel itineraries can reduce the time it takes to schedule a vacation.
- 3. The Tour and Tourism Control project automates the creation, booking, and confirmation of travel and tourism procedures. The system uses HTML and PHP as the front end and Microsoft SQL Server 2008 as the backend. The admin can upload packages to the website from travel agents and hotels, and users can register and book trips through the site.
- 4. Backpack travellers often struggle to create efficient and economic trip plans. Previous automatic itinerary planning services assume that user trips are limited to some important points of interest and will complete within one day, but this paper proposes a more general itinerary planning service that generates multiday itineraries for users.
- 5. Global warming has been identified as a significant environmental threat, and the transportation sector is a major contributor to greenhouse gas emissions. Alternative transportation modes such as cycling, walking, and public transit can reduce these emissions, but they are not always preferred by travellers. Understanding the factors that influence transportation mode choice can help policymakers and transportation planners encourage the use of sustainable transportation modes.

3.1 Literature Summary

The Literature Survey discusses the field of data mining in the context of itinerary planning systems for travel. The development of such systems is driven by the demand for personalized travel plans and the need to uncover relationships between different places of interest. One proposed system allows users to specify their desired places to visit for a selected destination, and uses association rules to identify frequently visited locations in each destination. Another system automates the procedure of booking and confirming travel, with the website allowing users to check all relevant information in one place. An important challenge in itinerary planning is creating a customized and efficient trip plan for backpack travellers, and previous work in this area has focused on automatic itinerary planning services. However, to address the limitations of such services, a more general itinerary planning service is proposed in this text, which considers all points of interest and generates multi-day itineraries based on users' preferences.

IV. SUMMARY

Trip planner engine works well with some limitation in the algorithm. Clustering algorithm can be enhanced by modified it and add some new parameters to modelled it as close as real trip. We use database to store object destination data, checking process of existing data takes more time to generate journey. For future works, we can modify the algorithm and add new parameters such as: moving time, choose of transportation, and more preferences

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