

SMART TRAVEL ASSISTANT USING A.I

Mamta Pednekar
UG Student, Department of Computer
Engg,
Marathwada Mitra Mandal's college of
Engineering
Pune,India

Nikhil Kelkar
UG Student, Department of Computer
Engg,
Marathwada Mitra Mandal's college of
Engineering
Pune,India

Jayrath Langore
UG Student, Department of Computer
Engg,
Marathwada Mitra Mandal's college of
Engineering
Pune,India

Sameeksha Zaware
UG Student, Department of Computer
Engg,
Marathwada Mitra Mandal's college of
Engineering
Pune,India

Abstract : The Smart Travel Assistant provides the ease of travel through the wide range of options and facilities provided in the system. Right from suggesting the appropriate places to the user according to their mood and past preferences to guiding the route of travel, weather, things to carry and best one stop places during the journey, travel could not have been easier and much more fun. Smart Travel Assistant has an inbuilt AI to provide a better user interface and quicker results. The chatbot within the system provides users the facility to ask questions and get their questions answered within a short interval of time. Suggested places also contain the range by which we can select the one best for our pocket. It also contains the domain or the type of place suggested such as religious, entertainment or nature so that we do not end up in a place obsolete to us. Moreover, the most feasible route and mode is highlighted along with the places during the journey to have a quick refreshment.

Keywords - chatbot, Artificial Intelligence, dashboards

I. INTRODUCTION

In today's hectic world, humans are being more and more dependent on technology. Various new technologies like Artificial Intelligence have emerged recently which give more and more personalized content to the users. Our application aims in bringing artificial intelligence in travel industry.

Our AI-powered travel-as-a-service solution includes

AI-Powered Chatbots:- Capable of automating more than 60 percent of the conversations initiated by travelers across travel verticals like destination finding flights, hotels and dining.

Dynamic Traveler Profiles:- Keeps living profiles on each traveler which are automatically updated based on actual user behavior, allowing agents to offer a more personalized service with every conversation.

Travel Dashboard:- Puts the power of AI-assistance in the hands of travel agents, allowing for faster response times to client requests through automation.

Any city, village or town is known for its culture and history. Along with that, it is a developing city with IT Parks, Theatres, Amusement Parks, etc. There are usually many places like special cuisine restaurants and must watch plays by renowned artists. People are always fascinated about travel. Also, in today's hectic world, humans are being more and more dependent on technology

Various new technologies like Artificial Intelligence have emerged recently which give more and more personalized content to the users.

Our application aims in bringing artificial intelligence in travel industry. Our AI powered travel Assistant provides the user with end to end details about every famous and worthy places that must be visited. Not only a dashboard with a roster of places but also an AI- powered system suggesting places according to the users past experience, past visits and heuristic question.

- We want to suggest users regarding the proper destination he should travel.
- Our application will simplify travelling since multiple functionalities are included in the application like hotel booking, information regarding places, means of transport to the destination etc.

The application will include the following categories:

- 1 Travel destinations: More than 80% travel destinations are suggested by our chatbot. It will include public parks, historic places, religious places, shopping malls, amusement parks, must go restaurants, etc. It will also suggest the destinations by taking into consideration current climate status and appropriate time to travel.
- 2 Hotels : Our chatbot will search appropriate hotels to find right accommodations for each Traveler. We accommodate hotels according to your requirement.
- 3 Dining: Our application will provide unique dining reservation experience with integration with different hotels across the city. All the suggested places that the application will suggest are well rated. And also, if the user requires, we will also suggest the best dishes which should not be left un-tasted.

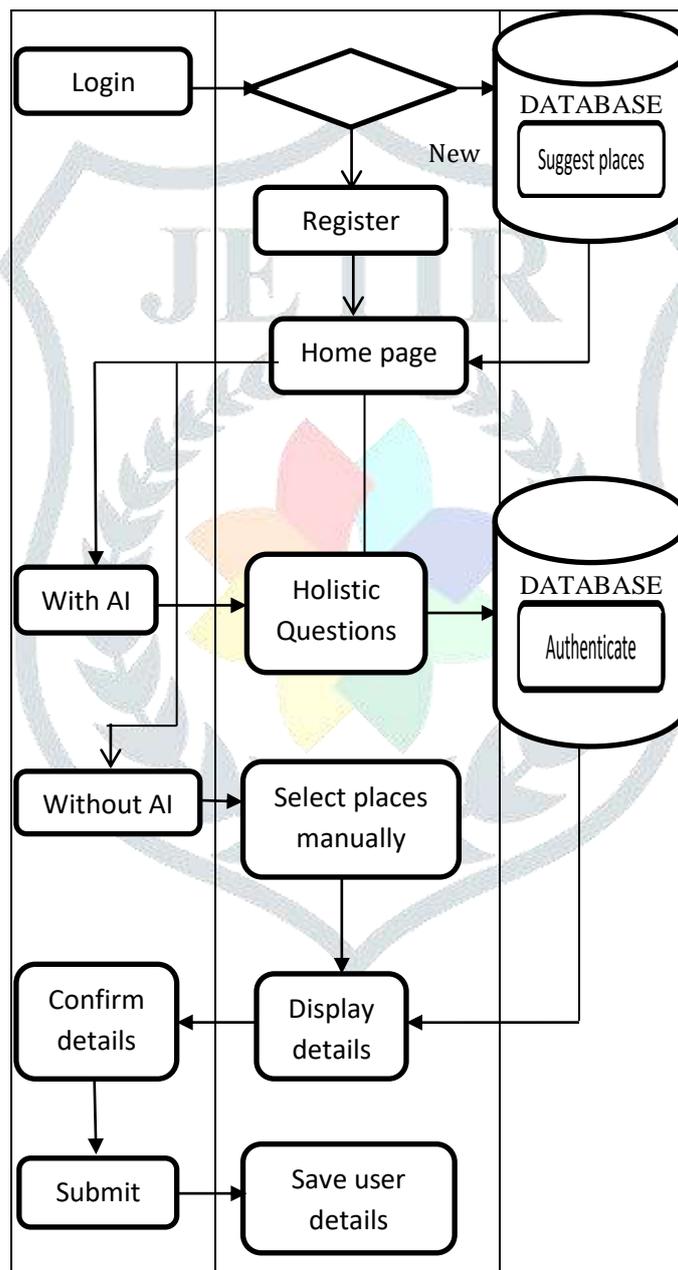
4 Entertainment: It will provide updates regarding various entertainment factors like movies, plays, festivals and music shows in the city. It will notify the user regarding the same auto rickshaw stands. No matter which destination is selected, the best route will be provided. So, the user is not left in a chaotic situation

5. Transport facility: It will serve the user with appropriate transport facilities like public transport, auto rickshaw stands. No matter which destination is selected, the best route will be provided. So, the user is not left in a chaotic situation

Abbreviations and Acronyms

- A.I : Artificial Intelligence
- IoT: Internet of Things.

II. SYSTEM ARCHITECTURE



III. LITERATURE SURVEY

The paper “Design of tourism resources management based on artificial intelligence” by author Feng Rong introduces “Artificial Intelligence” to travel industry. The method in this paper guides the tourist to plan their own travel routes . The framework diagram introduced in this paper explains the basic idea of model working in catchy way. The overall idea regarding how their system will work is illustrated clearly. How will the data extraction take place from different sites is

explained clearly. However actual method of implementation is very complex to understand. They have explained it using various equation, this can be simplified since the working is very tedious to understand and a lot of prerequisite knowledge regarding data analytics and data extraction methods is essential to understand the working for naïve user.

The paper “Mobile application for guiding tourist activities: Tourist Assistant TAIS” extracts tourist attractions and presents it before the user. It identifies various phases through which the tourist need to go like pre travel phase, travel phase, post travel phase and serves the user of its application accordingly. Based on rank of recommendation system, user is suggested places of interest that are better to see since screenshots of the actual application are presented, but the actual implementation of the system is not described as required, which generates confusion among the readers. The actual implementation and technology used for it must be explained more clearly. Also the keyword list must be included for better understanding.

The paper “A Smart Travel system based on social network service for Cloud environment” by Jason.C.Hung introduces smart travel assistant by making use of IoT and cloud computing. The system is divided into three components: real time search, personal demand and task service. A very innovative idea is of structuring the data, information of around the world is collected, stored on cloud and made available to end user in user-friendly way by connecting machine and user. The paper also is successful in providing the system details to great extent, by giving information regarding various domains and their actual implementation in the system

IV. CONCLUSION AND FUTURE WORK

The Smart Travel Assistant will be providing the best user experience for its users in order to provide quick results, avoid wastage of time on finalizing the location of travel and a convenient application. For this, we do not need the best minds at work rather the inbuilt AI will do a better job. The system will be currently developed only for a particular city for its huge IT base, tourists and large number of students coming from various places as we want to test all the facilities and implement all the characteristics and the attributes of our system at home first. Later, after all the mentioned attributes are being well implemented, this will be soon upgraded to other leading cities.

Advantages

- Quick Results
- Better User Experience
- Database will include best and highly preferred locations
- Chatbot for communicating with the system for doubts and queries
- AI for suggesting places based on mood and past preferences

Disadvantages:

- May not include all destinations of particular city
- Platform dependent

REFERENCES

- [1] Alexander Smirnov, Alexey Kashevnik, Nikolay Shilov, Nikolay Teslya, Anton Shabaev, “Mobile Application for Guiding Tourist Activities: Tourist Assistant – TAIS”
- [2] Feng Rong, “Design of Tourism Resources Management Based on Artificial Intelligence
- [3] Jason.C.Hung, “A Smart Travel system based on social network service for Cloud environment”.