

TOUR BUDDY – VIRTUAL TOUR GUIDE

Chaitanya Manjrekar¹, Vishal Dornala², Pranav Nandgaonkar³

¹ Student, Computer Engineer, VPPCOE&VA, Maharashtra, India

² Student, Computer Engineer, VPPCOE&VA, Maharashtra, India

³ Student, Computer Engineer, VPPCOE&VA, Maharashtra, India

ABSTRACT

The Web Application system acts as a Virtual Guide; for every input image given to the system, the output is generated as information regarding the monument. This Web Application provides information concerning the climate situations to make sure that the person is snug touring the preferred place. This System gives information regarding the preferred area for a person new to the metropolis or to the tourists who need to discover the area at their desired time period. Based on the user preferences and choices, the places are suggested to the user/tourists. The User can select the place(s) he wants to visit, for instance, parks, beaches, monuments or food joints, and so on; the system will give information regarding the monument and its history. Common tourism issues can be solved using a virtual tour guide who will help the tourist anytime and anywhere. As the web system is cost-effective and efficient enough to not miss out on the information regarding the monument and the vicinity. The user can also plan their trips based on their choices as well as their comfort preferences. The system is an interactive website to interact with the users, providing them with features as monument recognition, a rating system for places, live weather conditions for traveling, planning an itinerary, and exploring other tourist spots. The website greatly reduces the time required to search for a place leading to quicker decision-making and to make trips easy and comfortable as well as give the information related to the monument to the users.

Keywords: virtual guide, web application, monument, rating system, weather condition, itinerary, tourist spot

1. INTRODUCTION

The web application is a promising system that gives information regarding the monument or places with a single click of the picture. This method is an internet Application that acts as a guide giving out outputs to the user for each input given to the system. It helps the user with giving the live weather reports. The User has choices to pick out for the places he needs to go to for example parks, beaches monuments, or food joints. The system retrieves info concerning the clicked image through image processing.

1.1 Recommending Places

The web application smartly analyses the user's likes and dislikes as well as the time period the user is willing to explore a place and gives him information regarding the vicinity. This system helps the user or the traveler to find more about the city and plan the trips based on their preferences, It then automatically sorts the user's preferences and place them in front of the user. The Places are sorted and selected based on the top rankings by the users.

1.2 Planning Itinerary

The web application also provides an effective solution for users to arrange, manage and schedule their tours according to their necessities and demands. Those people, who are confused with their next trips and plans, find it difficult to plan with the best options, also finding a guide gives a hard time. Some of them offer really high fees. Using this application as a guide solves most of the problems regarding the best choices and places where they can spend a good time.

2. LITERATURE SURVEY

Using Tour Buddy the most common issues regarding tourism are solved. This application provides all the knowledge needed for a decent and planned touristy trip. Based on user ratings the user can plan their trip as well as it gives out information regarding the vicinity. To achieve this, the machine learning concept is used, where the model is trained to recognize the place and give out the respective information from the database. With a single click of an image, all the information regarding the image is given as an output to the user. Classification and deep learning concepts of machine learning and artificial intelligence are used efficiently to build a machine that processes the image and gives output as information.

The Author of [1] focus on providing a summarization of major advanced classification methods and techniques used for improving classification accuracy, and on discussing important issues affecting the success of image classifications.

The Author of [2] reviewed some current advance in deep learning based image classification. Deep learning technique is an approach to improve the training accuracy yet the cost gets multiplied by utilizing all the more training parameters.

3. EXISTING SYSTEM

In the existing system, all work is done manually. At tourist places generally, there is a human guide who guides the tourist. But the manpower required to guide the tourist to the various landmarks is not sufficient. Tourists use Google for information, weather conditions and Google Maps for locality and vicinity.

In our project, we are providing a combination of all the other existing systems. In our system, we are implementing some additional features like Information of location through image processing, Place rating according to the users, and live weather conditions.

3.1 Need of new system

Currently, many of us are using the web as a central platform to seek out information about tourist destinations. Many appliances are containing the needed travel information, and that they are over the entire world with different content languages, cultures, and performances. Moreover, nowadays people like better to make decisions supported by what they read from various sources. Described that a lot of people used these common questions when finding the knowledge about travel, where to go? What transportation to use? And what hotels are recommended to stay? The proposed system recommends tourist profiling that helps users to answer the user questions.

The system is a Web Application that will act as a Tour Guide and will suggest users at every point with a single input to the system. Due to high inflow of domestic as well as international tourists, the manpower required to guide the tourist on various landmark is not sufficient and sometimes lack in the information that needs to be given and highlighted to the tourist. Hence we propose a system, by developing a web application that renders information about the monument or landmark just by taking their live pictures as inputs.

4. DESIGN AND IMPLEMENTATION

4.1 Proposed system

The proposed system is a simpler and merged version of all 4 different most accessed modules associated with travel. These are - Getting information about a specific sight, planning, organizing, and managing. The system retrieves information about the clicked picture through image processing. The Places are sorted and selected based on the top rankings by the users. The User has options to select for the places he wants to visit for instance parks, beaches monuments, or food joints.

4.2 MODULES

- **User Registration:** User has to first create an account in the system by registering themselves and then can login into the system for accessing the services.

- **Login:** The registered user can now login and access their privileges.
- **Explore Places:** The traveler or the user can explore the places for planning trips and schedule their journey.
- **Retrieve Information:** The System retrieve information about the clicked picture through image processing.
- **Add Place:** Enables user to manually input data of new places with their attributes such as name of the place, area, location, phone no. (If Applicable) & image of that place.
- **Search Place:** Helps user to find the places nearby or around the world. After searching a place, the map will show the details such as name, area, location, phone no. & kilometers
- **Planning Your Day:** The user has to just put in his start time, end time and the start location and the rest the System does its work.
- **Reviewing/Feedback:** Users can even provide feedback into the system by filling up feedback form.

4.3 UML Diagrams

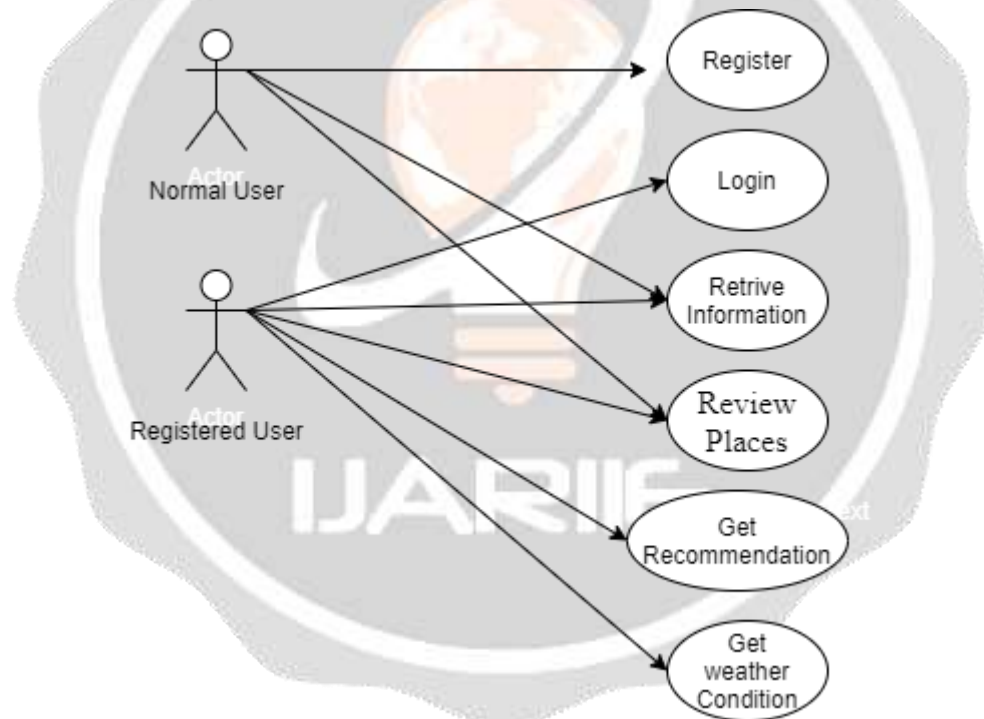


Fig - 1: Use Case Diagram

5. CONCLUSIONS

Tourism not only plays an important role in boosting the economy of the country but also brings joy and enjoyment to people all over the world. In this paper, we made an effort to discuss the approach to virtual tour guide through our project “Tour Buddy- Virtual tour guide” which is based on concepts of Artificial Intelligence and Machine learning, also including various other features such as, live weather report, recommendation of places, planning trips and explore various tourist spots. The approach of a virtual tour guide can solve common problems related to tourism including the cost of booking a guide and missing out on the information about the places. This system can be further developed to meet the need of tourists.

6. ACKNOWLEDGEMENT

We take this opportunity to express our sincere gratitude to **Prof. Manish Gangawane** for his valuable guidance in this PROJECT without which the PROJECT would not have been completed. We are very much grateful to him for his untiring assistance and he has been encouraging us in eliminating the errors. The research paper has been developed as a result of his valuable advice.

7. REFERENCES

- [1]. D.Lu & Q Weng, “A survey of image classification methods and techniques for improving classification performance”(2006)
- [2]. Vishali Aggarwal and Gagandeep “A review: Deep learning technique for image classification”
- [3]. Yuyan Luo¹, Yao Chen¹ and Weimin Zheng² , “A Literature Review on Evaluating Tourism Destinations”
- [4]. M Manoj krishna, M Neelima , Harshali Mane , Venu Gopala Rao Matcha “Image classification using Deep learning”
- [5]. Achin Jain, Vanita Jain and Nidhi Kapoor “A LITERATURE SURVEY ON RECOMMENDATION SYSTEM BASED ON SENTIMENTAL ANALYSIS”

