Smart Tourist Guide System

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Abstract - Smart Tourist Guide System is an application which will be helpful for those travelers who wish to visit Indian places. It will be a free application which will integrate all separate portions within itself and will make it more effective and simplified. The aim to design and develop this project is to produce a tourist guide for Delhi, which can efficiently guides the tourist who visits Delhi. Due to its natural beauty many domestic and international tourist visits every year. The Android tourist guide can be used in place of professional guide due to many reasons like reduce cost of guide, get more accurate in-formation needed for decision making, giving weather and social networking services. The tourists can use this guide for different purposes like searching a location calculate distance between two locations, getting basic textual information pictorial information of location which normally we could not find in default Google maps

Key Words: Android Studio, Java, Firebase

1. INTRODUCTION

Smart Tourist Guide System application will get as a free open source platform for those who wish to visit Indian places according to their preferable number of days, their budget expenses, weather conditions, etc. It will show the history, reviews and rating given by other travelers. The aim to design and develop the project is to produce a tourist guide for Delhi to facilitate domestic and international tourists. Due to unavailability of proper tourist guide tourist face many problems. As traditional practice when a tourist visits Delhi they have to engage professional tourist guides. The guides provide information about the city. We have to spend handsome amount of money to get such services of a professional guide.
It is expensive for most of the tourists. Mostly guides are not professional because they working part time in summer season as guide and in winter they used to work in some other fields. So sometimes the guide also could not give proper information to the travelers because of human nature they can not remembers facts and figures which is required for decision making like temperature, heights from sea level, weather condition, dates and historical importance etc. This tourist guide can show the map of the desired location, calculate distance between two locations and shows basic information of tourist spot using android based smartphone It is freely available any time whenever a tourist need. This tourist guide project is an Android application which uses Google map API, global positioning system (GPS) and Internet.

The system takes latitude and longitude of the location and shows the location on map. It also calculates distance from user’s current location to desired location. The application will help to provide modern technology for tourism industry and helps to boost the tourism

2. Problem Statement

The goal of the project is to do develop an android app that helps traveler on his journey. The purpose of our project is to provide the basic idea on some common conversation in the different places that the travelers need to go after coming to that place. The main objective of this research is to develop a mobile travel guide application with added functions to an existing application. Especially in this application, the interaction between users is the new function compared to traditional travel.

Tourism industry is a booming industry that enriches knowledge, brings social development and economic growth also. Service industries are of recent development in India compared to developed nations. Nowadays, tourism and medical tourism are fast growing areas. But, there are lots of problems faced by tourists during their tour due to poor facilities, uncertainties, cleanliness, safety, etc. Dailies bring out reports on such issues. Previously, people used to tour mainly on pilgrimage. But now, the culture has changed. In our country also, many people plan for their tour as a regular affair may be once in a year. In this growing field, it is highly important to study the major issues faced by tourists and to take necessary steps to reduce such problems.

3. Module

![Fig -1: Design of module](image)

Registration → Famous City → City Weather Information, Temperature → History Of Place → Location Of Place → Result
Famous City: In an app there are some famous cities in India where users can get valuable information about that city.
City: Here users can search restaurants, hotels, famous places, etc. from selected cities.
History of places: Users can get information about places and some history about that place.
Location: Users can get the location of places like hotels, restaurants, or some famous places with the direction and how to reach them via bus, train, or a private vehicle.

4. FIREBASE

Firebase is Backend-as-a-Service (BaaS). It provides developers with a selection of tools and services to assist them in developing quality apps, growing their user base, and earning profit. It's built on Google's infrastructure. Firebase is categorized as a NoSQL database program, which is used to store data in JSON format.

Image Upload:

Admin will capture or take a photo of the place and upload it with the admin login, and it will be stored in a Firebase database. After storing the picture successfully, the system passes a script to upload the stored information to the Firebase database.

Sending GeoLocation:

For getting Geolocation, we use Selenium to fetch the current location through "https://mycurrentlocation.net/". From this link, we get Latitude, Longitude, and City Name, and after getting this information, we pass it to the Firebase database.

5. WORKFLOW

5.1. Flow Chart

![Flow Chart]

6. CONCLUSIONS

From the analysis of the result, we can conclude that our smart travel guide app is able to meet the requirements for travelers for a great traveling experience. As a conclusion, the design of the smart travel guide is able to perform as expected and can be further analyzed for future enhancement so that new features can be focused on producing a better solution by improving the effectiveness of the app. It enables free, secure, fast, and easy usage. We can also conclude that the use of a smart travel guide will definitely benefit the user by saving storage and time of the user which in turn makes this app user-friendly.

Hence, we have successfully drafted our project report on the proposed system. The proposed system offers a smart travel guide, which could be used by travelers on their journey.

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