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Development of Tour Guide Application Providing Location Based Information

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Abstract: ***As technology is growing immensely travel is one of the top sectors are growing disrupted by technology. Travelling apps are making center stage in the mobile app development. In recent market, there are different apps with various functions. As an example, Google maps for locations, another is trivago for hotels bookings and so on.***
We will be using an android studio to implement our project. Android studio is the official integrated development environment (IDE) for android applications development. Android studio provides more features to make various functionalities in application that enhance our productivity while building android apps. It supports Java programming languages to build the app. In this project we will build a tour guide application. This app will provide the information about tourist places and nearby place recommendations such as hotels, tourist places, helpline numbers and also give brief information about the places. We will also sort the places category wise like hill historical, cultural, parks etc. We are implementing all the various functions of different applications gather in one app. Thus the name tour guide app.
Keywords: Travel Guide, Android App, Interest wise, Hotel finder, Helpline.

I. INTRODUCTION

With the development of national economy, formation of a new life concept all the people's make a day happy on holiday the tourism has become more and more people's choice during the holidays.
The main idea and motive of the project is to develop an android application. Which helps to the travellers for finding the tourist place to visit. The travellers take long time which waste on searching for the better place by switching to different apps for information of tourist places and the a map was used for finding location and such a application for the hotel rooms. So our motive is that to make an android application for all information at one place about tourist places, hotels, and provide nearby helpline numbers of hospitals and police stations. The project is about tour guide system that helps to a tourist and get best use experience of the application according to their interest. The purpose of our application is to provide the basic idea and information about some different places that the travellers need to know at the time of visit or before the visit.
Today tourists want to get information about their destination before visiting to the sites. Mobile based tour guide system allows them to get the needed information anyone that used android phone at any time, from anywhere. The travelers of small or large groups of people is the use of a human as tour guide that will guide them to their tour and provide information but this app provides an audio files of the particular tourist places so the travelers can listen this at the time of tour.
This tourist guide project is an Android application which uses Google map API for global positioning system (GPS) using Internet. The system takes address of the location and shows the location on map. Then user can use functionality of maps. The application will help to provide new technology for tourism industry and helps to increase interest in the tourism.

II. PROBLEM STATEMENT

The main problem of frequent traveller who is travelling frequently needs an application but due to switching to different apps it becomes difficult and takes lots of time for the traveller and it spoils the mood. So we get to know the need of them they wanted an app which has the various functionality of all various travel apps does in the market today. The motive of the project is to do develop an android app that helps traveller on his journey. The purpose of our project is to provide the basic idea on some common conversation and the information in the different places that the travellers need to know that place. Especially in this application, the interaction between users is the new function compared to older apps that has not proper GUI. Our app is to easy to use and efficient to manage the tour activities.
The proper tourist guide is not available which could display and provide all the information. The main objective is to develop a mobile travel guide application is to add new functions to an existing application.

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III. LITERATURE SURVEY

A literature review is a text of a scholarly paper, which includes the current knowledge including substantive findings, as well as theoretical and methodological contributions to a particular topic. Literature reviews use secondary sources, and do not report new or original experimental work.

1) Paper name:Travel Guide Android Application

Author: Syed Zishan Ali, Bhoomika Kapde, Kanchan Poptani, Siddhant Ogale

The motive of this android application, is to manage a tour for the users through mobile computing with complete requirements and needs in location. The default categories are provided to help user plan their trip efficiently. The guidance of tourist places is given in detailed information about each and every tourist location in that particular city
or place with tailored description. It also enables user to search a particular location efficiently.

2) Paper name:Augmented Reality Based Mobile Tour Guide System

Author: Akil H. Sayyad , Santosh A. ShindeK

Tourism is travel for pleasure; also the theory and practice of touring, the business of attracting, accommodating, and entertaining tourists, and the business of operating tours. Tourism is one of the most significant industries in many countries and its importance is rapidly growing n recent years. In order to guide tourists, there exist various types of tour guide methods. Among them, paper based and Mobile based systems are the most commonly used ones to provide tour routes and heritage information for tourists.

3) Paper name:Android Based Tourism Guide for Benishangul-Gumuz Region, Ethiopia

Author: Abeselom Befekadu Wolde and Yimer Amedie Muhie

Benishangul Gumuz is one of the regions which have a potential of tourism in Ethiopia. In order to visit the region tourists have to go to tour operators office or must have a printed guide booklet of the attraction sites. Due to the lack of updated information, tourists are not be able to visit all tourism attraction sites. This research project tries to provide convenience to the visitors by providing a solution to the problems that the tourists faced during their visit.

IV. PROPOSED SYSTEM

Proposed Tourist Guide Project system provide accessing the information and user can also view their desired location of the tourist place into the map as well. Touristers get access to the other information related to the place such as the specialty of that place, nearby hotels, restaurants and helpline numbers and so on…

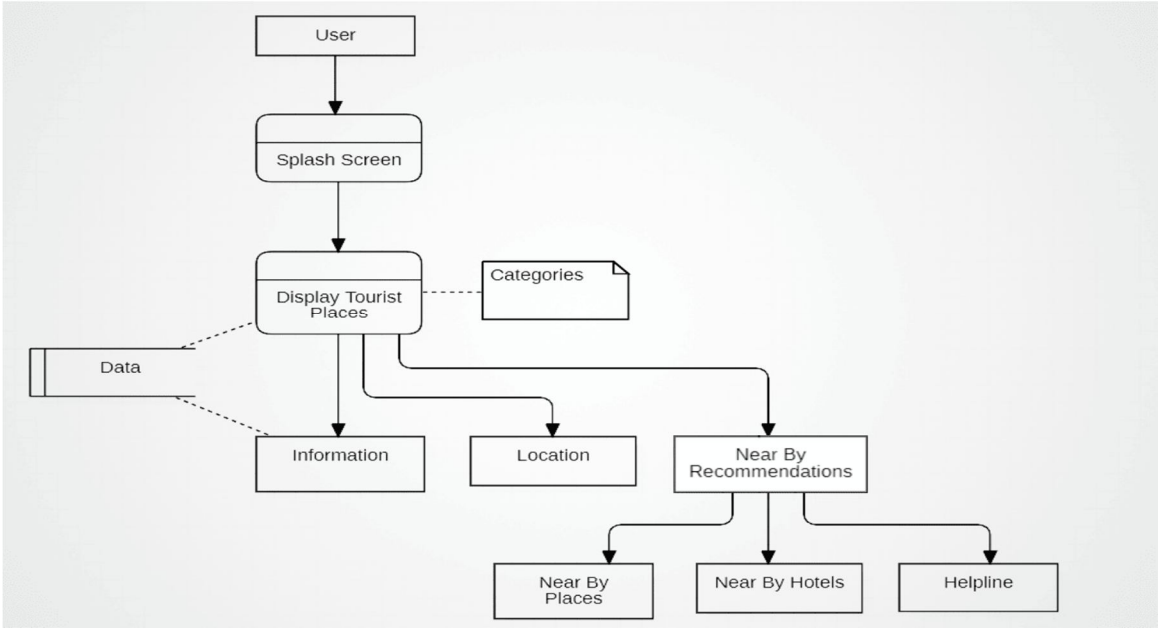


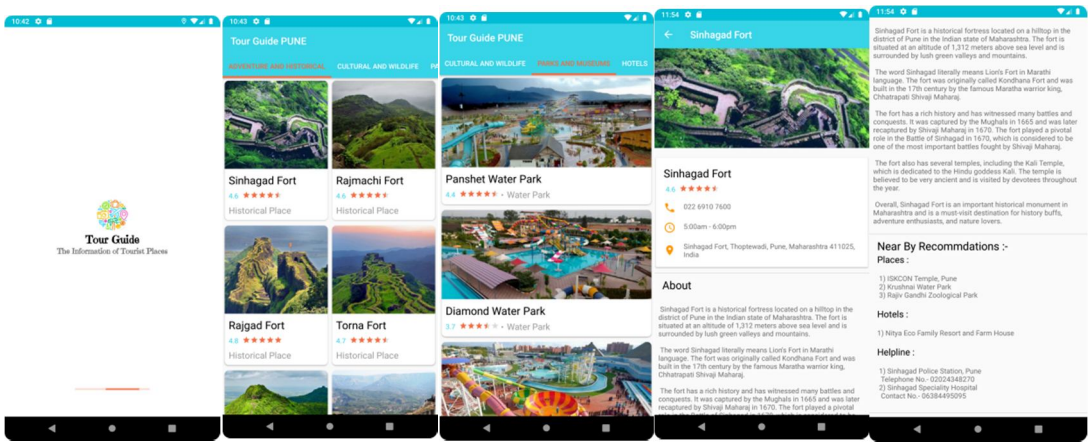
Fig. Proposed System Architecture

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V. METHODOLOGY

As shown in proposed system, the architecture depicts the workflow of the application. First, the application is launched, the splash screen appears. In the in splash screen app gets load. Then app displays homepage that contains various categories such as adventure and historical, cultural and wildlife, parks and museums, hotels. After click on categories the tourist places changed. As we click on any tourist place it gives information of that place. The information contains the ratings which the avaliable by data, location of that place by the maps, contact information related tourist place, information provide in textual format and at last provide a near by recommendation includes near by hotels names, near by tourist places names and helpline information.The features used in developing the project are Android studio, Firebase, Android SDK and JDK and java programming language. Android studio is the platform where the complete programming of the project is done. Firebase is used for database. Android SDK and JDK are tools used to create and compile packages in this application. Java is the programming language which helps in app development.

VI. SNAPSHOTS



VII. CONCLUSION

From the analysis, we conclude that our tour guide app is able to meet up the requirement for the traveler for a great travelling experience. The system provides the information of tourist places and near by recommendations such as hotels, hospitals, and so on. The system is a combination of android application with information of tourist places to the tour of user.

As a conclusion, the design of the tour guide is able to perform as expected and can be further analyzed for future enhancement so that new features could be focused to produce a better solution by improving the effectiveness of the application. It enables free, secure, fast and easy usage. We can also conclude that the use of tour guide app will definitely benefit the user by saving storage and time of the user which in turn makes this app user and practice-friendly. Hence, we have successfully created our project report on the proposed system. The proposed system offers a tour guide application to helps travellers on their journey.

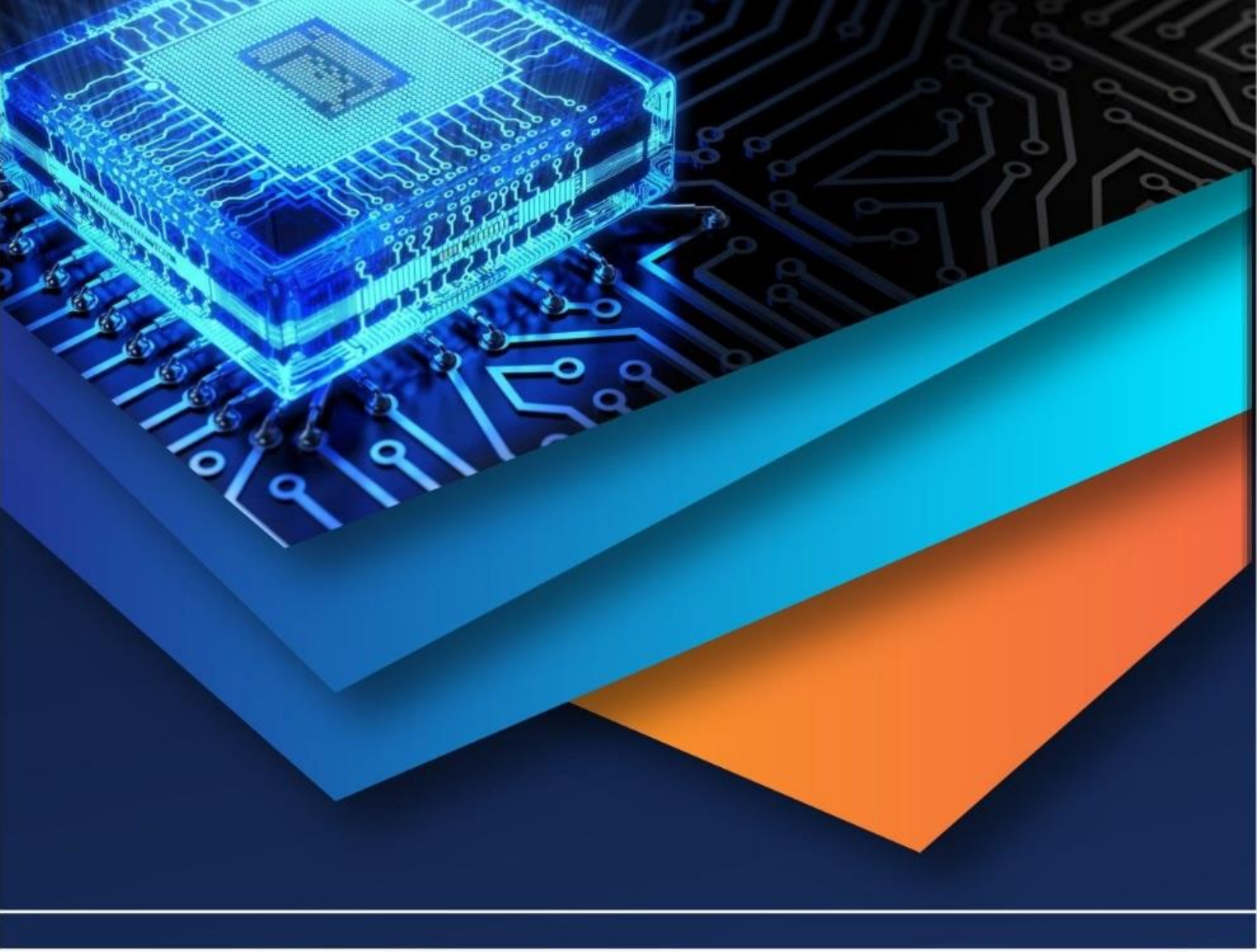
VIII. FUTURE SCOPE

In future the tourism is one of the most successful sector for our country. So our app is working for many more days and also provides some future improvement in app such as by making offline access of information of specific destinations which could be used in remote areas. Here we can provide locations for only one city in future it can improve by adding tourist locations for many cities.

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