

TRAVEL MATE

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ABSTRACT—This article is purposely to design and implement an android application that can be used by android smart devices. The application consists of many exciting features that will impress user with use of latest technology to design it. However; data were collected through research methodology of enquiry mode and application. For enquiry mode, data were collected as quantitative from questionnaire. While the application mode; goes with analysis and survey as applied research. For overall conclusion, testing were carried out on unite testing and integration testing. This is to verify and validate basic feature of the system entirely, it was tested certified the requirements. Thus; feature enhancement needs to be carried out in subsequent project, in conclusion this research certified the requirements.

Keywords-Smart phone application, tourism, android OS, internet, web application.

I. INTRODUCTION

Now a days, there has been a consistently development in the quantity of individuals or persons out on visits, for the purpose of recreation, accommodation and entertainment. Tourism is dependably the most grounded industry in the worldwide economy world that leading an approximated 11 percent of the world wide gross domestic product (GDP) and utilizing close around 200 million individuals and serving approximated seven hundred million overall tourists which is expected to almost double by the year 2020.

Aims: The essential purposes of this article of develop a travel guide system Using Android Phone Application. The Application Software could be worked or utilized on any real Smartphones that is fit for using Android Platform for a tour guide system.

Objectives: Main objective is to create an automated system that will be installing in smart phone for users to access details on travel guide Nigeria. Taking android is more suitable for the project due to high number of android users. These are, developing system that can supports all android OS version, application

with less memory space, synchronised system serving dual purpose of mobile and web application and get halal food restaurant, hotels map and adequate information.

II. PROBLEM STATEMENTS

The major factors of problem statements of usability, load and performance, lack of information, alert response and communication band width could hinder the research from achieving the main objective of it. These problems are describe with risk involve and solution for the problems. Analysis had shown with the smart phone anticipated that will surpass the business of Smartphone within a brief span of time and the general shipment of Smartphone determined to achieve 400 million by 2014 (Adolph, 2009), there is no better platform to create the travel guide application other than the Android.

Tourism and the smartphone application capabilities

Travel with smartphone: Taking into account of computing abilities and smart phone application, the smart phone has quickly been received as a tourism travel instrument. With a developing number of clients and a wide mixture of uses developing, the smart phone is in a broad sense modifying our current utilization and understanding of the transport system and tourism travel. In view of a survey of smart phone applications, this research assesses the current functionalities utilized as a part of the household tourism travel area and highlights where the following significant improvements. (Norgate, S. (2014) Tourism and smart phone).

Smart phone Application capabilities: As the world become networked, and systems have gotten general through the use of smart phones, social practices are experiencing a radical conversion, none more so than in the space of travel. The fast uptake of portable engineering (Ofcom, 2011) has empowered individuals to arrange their everyday flexibility with expanding

smoothness (Ling, 2004) giving extension to abhor choice making on the go focused around organized integration between individuals.

III. SYSTEM ARCHITECTURE

Firstly, application user will register themselves to the system. Then user authentication is done by administrator after successful registration. If user are already registered on system then they will just login by using the mobile number. After the client logs in to the system, application consist of three options seen by the user. The first option is capture image will have consist of capture image from an off-line booklet, the second option will be the browse images from the mobile device and third option will be submit these captured or browsed image to recognition process where images is recognized with database of images.

IV. RELATED WORKS

Travel and tourism industry is a huge sector with a 6.3 trillion dollar per year according to the 2015 statistic. This is due to the contribution of both the sector i.e. the travel and tourism and the mobile app industries. A huge part of success is because of the mobile apps. These travel apps replace the days of guidebooks, compasses, maps and other printed stuffs. Smartphones make it more portable to carry all the resource that you need to have while travelling. According to this particular source these are the top ten locations namely California, Thailand, Portugal, Australia, Hungary, South Africa, United Arab Emirates, Russia, and Spain, India. Now in this section we will discuss the various apps that have been developed for these particular countries for doing smart work or helping tourism or the tourist to visit the countries in a better way so that these cities can get converted into smart cities. Now talking about the various features of those applications.

A. CALIFORNIA TRAVEL GUIDE WITHME California travel Guide WithMe is an offline travel guide, which give the detailed articles around the countries in relation to the current locations. It's a great source for the general travel information as well as for the beaten track advice This app is also provided with the information of how to stay safe and healthy, about the restaurants and hotels (all with low costs and taxes) including all the road rules and verities of other information are stored in one single app.

V. METHODOLOGY

Symmetric and combinatorial matching Algorithm:

Input: keypoints in Query Image Output: Similar image with highest matching score
 Step: 1. Compute the key points in both a query (I_q) and a reference image (I_r). 2. Perform nearest neighbor matching, and then remain matches if the ratio of the shortest and the secondshortest descriptor distance is smaller than a predefined threshold IJ ($IJ=0.9$). This step is denoted by $M(I_r|I_q)$. 3. Compute the matches from I_r to I_q . Then calculate the symmetric matches; $M_s(I_r|I_q)=M(I_r|I_q) \cap M(I_q|I_r)$. 4. Follow step 1 and 2 in both BRISK and FREAK descriptor matching. Candidate matches are obtained for each of two cases, and then common matches between them (combinatorial matching) are used to finalize the matches between the images. 5. Consider the total number of matched keypoints as a match score and recognize the image by retrieving the reference image with highest match score.

Tracking by detection Algorithm:

Input : Video frame Output: Recognized target object in video frames
 Steps : 1. Used for live video tracking, the basic idea of this approach is that feature points are extracted from incoming frames at run-time and matching is performed against a database of feature points.

Research design: Research design of this project focus on target audience of teenagers, tourist and agent with overall number of 20 peoples. This will help the researcher to collect data needed for the project. Using these three categories is more suitable for the project because teenage and elders are mostly goes for tour.

Analysis of data collection: This chapter will analyse the data obtained from main target audience of this research. Graph will be plotted to find statistic average of requirements needed, all these will be summarized from both target audience in other to meet the requirements. Sample of the graph analysis are as follows from teenagers, tourist and travel agents.

For example- A correlation between cancer cases and pm_index has its value in the range 0.00-0.25.

VI. CONCLUSIONS

In this paper, we presented the design and implementation of a mobile application called Travel Mate, with which mobile users can get tourism

guidance information they need anytime and anywhere. By Travel Mate, users can get an attraction's detailed information, including text, picture and video. In particular, Travel Mate can provide users with location-based information, which can be browsed or queried through a map. User can search the nearby attractions after he or she configures the distance between the current location and the view spots. When the user moves out of the current location, the mobile phone will automatically This research has meets and satisfied the requirements from the problems statements by enhancing the proposed system performances, provide adequate information for tourist, improve the usability aspect and finally the alert response system. Taken task like this in developing android application involves lots of obstacle and challenges due to rapid growth change technology. Taken into account of this project on travel guide Nigeria, one can become an expert application developer that can stand on the market to earn money.

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