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Smart Tourist Guide

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ABSTRACT: Now-a-days mobile phone is a necessary part of the people's life. There is continuously rising in a number of mobile computing applications, centred on the people's daily life. In such applications, location dependent systems have been detected as an important application. Such application which presents the architecture and implementation of such a location is commonly known as Smart Tourist Guide. The proposed architecture is of mobile tourist guide system for Android Mobile Phones that is able to provide tourism information to the mobile users conveniently.

KEYWORDS: API, Android, Mobile phones.

I. INTRODUCTION

Nowadays, people's consumption structure is improving steadily. There has been a large increase in the number of people out on tours, for the sake of recreation and entertainment. Tourism is the strongest and largest industry in the global economy world, generating an estimated 11% of the global gross domestic product (GDP) and employing 200 million people and serving 700 million tourists worldwide-a figure which is expected to double by the year 2020. Meanwhile, there is greatly enriched travel information provided to the tourists on the Internet. However, a problem is shown that tourists are not able to get travel information timely when they are on the move. Therefore, the idea is to explore how to build a mobile tourist guide system based on the PHP database technology in Android Mobile Phones to solve this problem.

Current mobile services are enhanced with location aware features, providing the user with better use experience. A great number of mobile phone applications eared recently, many of which are location-related. Location-dependent services, which answer location-related queries, are an important class of context-aware applications. With kinds of promising applications, like local information obtain and neighbouring environment queries, such as finding the nearest restaurant, location-dependent query service will soon become an necessary part of the daily lives. The design, implementation and deployment of a location-based application, named Smart Travel Guide, with the mobile phone as a platform. This application permitted users to get tour guidance information they need anytime and anywhere. In particular, the tourist data could be browsed or queried through an Internet map service such as Google Maps.

The mobile client's current location is one of the most important information for location related system. Mobile phones need to report their own locations to the remote server periodically, so that the information they want can be suitably queried. From the point of view of the service, the simplest method of locating is to let user tell his or her location, but this method requires extra effort because the user needs to define his or her location and input it to the system. The user can be located with different positioning systems. The advantage of this method is that the users do not need any extra equipment.

II. RELATED WORK

The main objective of this paper is when users are on the move, it is able to provide rich and concise information timely and make them access to the service at anytime and anywhere. The proposed system is based on request and response, so there is no continuous acquisition of the bandwidth. The main reason for taking a scripting language like PHP because of the interaction of the interface with the databases it can offer PHP and MySQL database, is use to retrieve information from the server. For making connection to PHP script, HTTP protocol is used from the

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android system. In case of client-server architecture, client is Android device and in server side there is a combination of PHP Script and MySQL. In short, PHP Script sits in middle as shown in image.



In brief, First android application calls a PHP script in order to perform a data operation, lets say “create”. The PHP script then connects to MySQL database to perform the operation. So the data flows from users Android application to PHP script then finally is stored in MySQL database. The figure below shows the database creating Android PHP MySQL Database

Table name: Add column(s)

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Table comments:

Storage Engine:

Collation:

PARTITION definition:

III. ABOUT OF THE APPLICATION

A. Advantage & Disadvantage of the Existing System:

In the tourism industry, tourist information is obtained mainly through newspaper, magazines, radio and other simple ways those are available easily. But problem is that tourists are not able to get travel information timely when they are on the move. While today's mobile devices are becoming more intelligent, compared with PC, they still have the following limitations like small screen and tiny keyboard, limited CPU capacity, limited memory space, slow and fitful Internet connection. Many mobiles of recent decades have travel guide application. But the application on these mobiles works slow due to continues acquisition of the bandwidth. Therefore, the mobile end-user's operation is very difficult, and the contents display on the screen of mobile device is limited.



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B. Basic concept on the application:

The application aims to develop detailed texts, pictures, and other guidance information are provided, and so people can better understand the tourist attractions and make decision objectively. A problem is shown that tourists are not able to get travel information timely when they are on the move. Therefore, the idea is to how to build a mobile tourist guide system.

C. Modules of the Application:

- Find Current Location
- Image Search
- Calculate Distance between two Cities
- User's Review

• Find the current location:

Current location is shown in Android application using Google Maps API. API Key is needed to access the Google service for displaying the maps. Current location will be shown in a marker. Key tool is a tool available in Java JDK

• Image Search:

Search by taking a picture: point users mobile phone camera at a painting, a famous landmark, a barcode or QR code, a product, or a popular image. If Goggles finds it in its database, it will provide with useful information. All Chrome users will be able to search by image and Chrome for Android users get some new gestures to quickly navigate open tabs and access the menu.

• Calculate the Distance between two cities:

Distance between two locations is calculated using its latitude and longitude. Latitude and longitude is obtained in database from GPS.

• User's Review:

Here the mobile user is able to upload his favorite location Spot. This location is added to the database and becomes a new tourist place.

IV. CONCLUSION AND FUTURE WORK

This paper presents the design and implementation of a mobile application called Smart Tourist Guide, with which mobile users can get tourism guidance information they need anytime and anywhere. By Smart Tourist Guide, users can get an attraction's detailed information, including text and picture. In particular, Smart Tourist Guide 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 send its new position to the server side, and the corresponding attraction list will be received by the user. Finally the user can also upload his favourite view spot to the application. In future implementation of weather Forecast conditions, Video Search etc., can be done.

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