AN APPORACH FOR TRIP PLANNING BETWEEN TWO CITIES IN ANDROID SMARTPHONES USING CLOUD COMPUTING

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Abstract: This paper is to explore how to make Trip planning using the Android. Purpose of this project is to track the present Location of the user along with the Weather forecast wherever you go and also you can know the weather forecast of each and every location and has the power to store the camera pictures directly to the remote server (Cloud) as well as this application provides Hotel booking to book the hotel using mobile including payments. In addition to, it provide auto synchronizing the data between mobile device and Cloud using LRU [Least Recently Used] algorithm.

This project is done on the smart mobile technology with a very popular operating System that is android as we know mobile phones have become a trend to use the smart phones by the end users So I have come up with idea to build an application which can be used as a user friendly application for the end user.

Keywords: Weather forecasting, Present location, nearby location, booking services, cloud services.

Introduction : The recent emerging technologies are Android and Cloud computing. Based on these technologies I implement a MyTour application.

Android is a mobile operating system developed by Startup in 2005. Google purchased the Android and given to developers as open source. It has been releasing various versions of operating systems. This MyTour application is developed on latest version i.e. 4.0.3. Cloud Computing is a new concept it overcome the limitation of storage space in mobile. The Cloud is divided into three types; there are public cloud, private cloud and hybrid cloud. Private cloud is using in this application for storing data, files, pictures..etc.

Related Work : My Tour application provides guiding the particular city interns of weather, nearest location and present location. Earlier, if you want to use any above application we need three different applications. It takes lot of memory space. Whenever tourist wants to take the picture of spots, those pictures will stores in mobile itself.

In mobile some data or files that has not being using from long time. It leads to the wastage of memory. Normally Tourist like to stay at hotel; then he calls to hotel asking about vacancies and prices. So, this process is overhead to book the hotel.

Proposed Solution : Now days, the main problem mobiles are facing is storage space. Weather forecasting, nearest location and present location are kept in single application. Due to this reason we save memory space. Hear overcome the all difficulties MyTour application provides efficient results for tourist. If tourist wants to take spot photos and those photos will be stored in Cloud instead of storing in mobile. Some files or documents that have not using from long time those documents will store in Cloud using LRU algorithm.
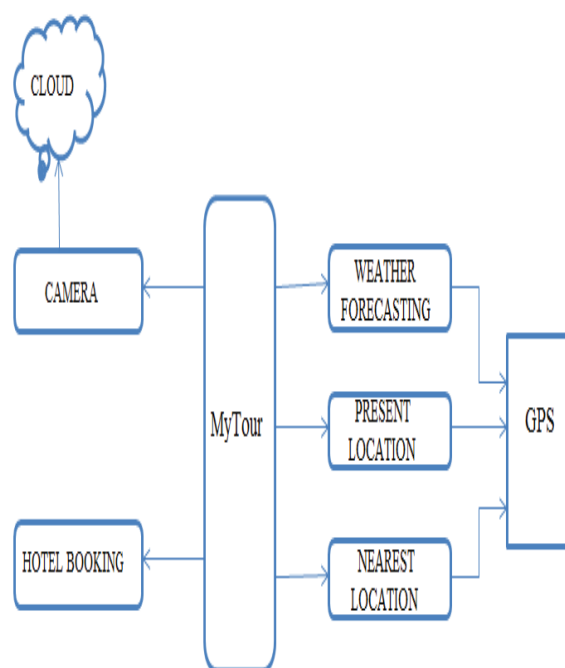
Architecture :

fig: architecture

The My Tour application consists of five modules. There are weather forecasting, present location, nearest location, hotel booking and cloud module.

The weather forecasting gives the weather report to tourist according to which spot weather information he wants. Present location gives the information current location of the tourist. If tourist visit one spot and he wants to know nearest location of his current spot, it provides information vary accurately. These three modules get the information from GPS.

In addition to, MyTour application provides Hotelbooking. If tourist wants to stay at hotel, he can book the hotel using mobile itself instead calling to the hotel.The last module is cloud part, it provide the

memory space for string documents and files.

A. **Weather forecasting**
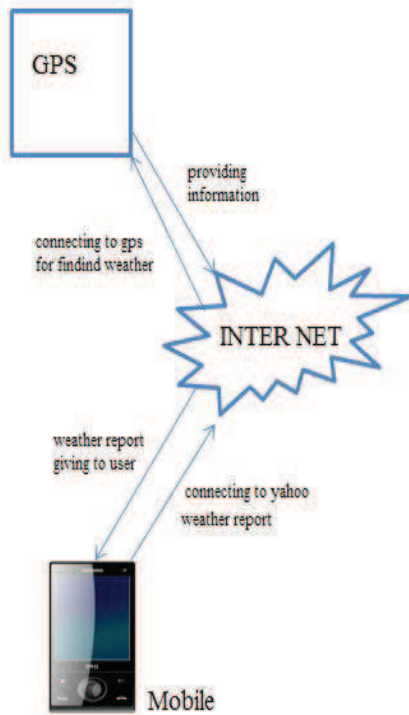
Tourist gives the input (spot name) like golkonda, and then given input is search in the internet. Tourist get the weather report in the form of centigrade. Hear this application using Yahoo weather report services. Yahoo connects to GPS get the spot information very quickly. It gives information very efficiently compare to desktop applications. The following figure shows how data is processing.

B. **Present Location**

Tourist wants to know his current location, if he clicks on current location icon it provide current place. This process will be done using google map. Tourist wants to move from current place to other location, this time one cursor blinking on his mobile. Then he can easily identifies where he is moving.

C. **Nearest Location**

Tourist visited one location; he wants to visit the nearest spots according to his interest like museum, beaches, shopping malls...etc. Google maps are need to get the all those spots.

D. **Hotel Booking**

Tourist can book the hotel at anytime from anywhere using booking.com. Hear first tourist enter the name of the city and date of booking. Next it searches the available hotels in that city. It asks for tourist details, and then it directly proceeds to payment. He can pay directly online itself using credit or online banking.

E. **Cloud Module**

This module is overcome storage space in mobile. It provides sufficient storage space for tourist. He visits any spot and take the pictures. Those pictures will be stored into cloud i.eSkydrive instead of storing in the mobile phone. The following figure shows how the pictures are store

Later, if want to retrieve those pictures using retrieve button in your mobile. Microsoft will provide the security for your data.s into skdrive.
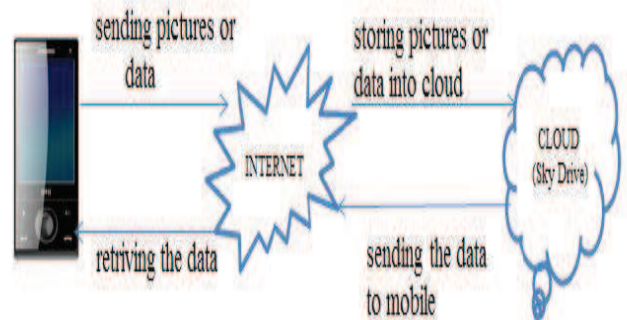
In addition to, some files are not using from three or ten days. Those files lead wastage of memory in your mobile. So, using LRU [Least Recently Used] algorithm to auto synchronizing the data between mobile and sky drive.

After storing your data into skydrive he will get a message like your app.mpg file stored in drive. Later if he needs that file easily retrieve from mobile. By using a method lastModified(), it returns the last access. The time stamp of a file compare with previous time stamp. For processing above data we must need a Microsoft account. We need to login first then remaining process will be done.

5. Conclusion

The Android platform proved to be capable of supporting a melding of different services. Our application showed how to access the cloud storage from mobile device. It help clients to store their mobile data to cloud while on the move and access them whenever they want. This application implements the auto cache algorithm which is one of the important features of this application. This algorithm smoothly marks some files which are very infrequently used and upload them to cloud storage without the permission of client.

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Screen Shots

Home Screen

Nearest Location
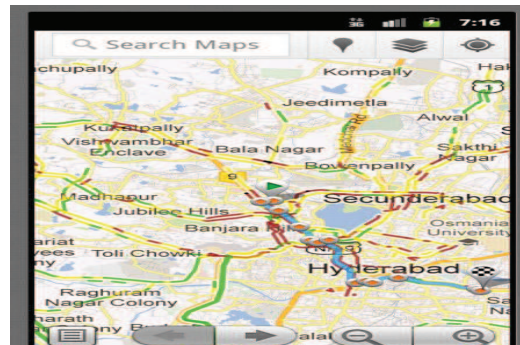
Weather Forecasting

• Hotel Booking

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