Navigation based local market search engine

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INTRODUCTION

It is normally acknowledged that transportable user devices are rapidly turning into equal to a communication hub, sporting arrays of GPS navigators, multiple wireless inter-faces and web-based applications. Because the mobile phones have become additional powerful and present in our everyday life, the applications running on the movable square measure paid additional attention by the folks. Most of the applications that depend on the net square measure developed the movable version to proliferate the convenience. The conception of the mechanical man platform is attracting additional and additional programmers in mobile computing fields. Android is a package of software package for mobile devices, as well as Associate in nursing operating system, middleware and core applications. The Android SDK provides powerful tools and app is necessary to develop applications on the mechanical man platform mistreatment the Java programming language. Mechanical man platform is of open system architecture, with versatile development and debugging environment, however additionally supports a spread of scalable user experience, that has optimized graphics systems, rich media support and a awfully powerful browser. We style and implement mechanical man primarily based city guide system which can offer user with the knowledge of edifice, attractions, eating house etc in town. Suppose you’re travelling in a celebrated city that you're not acquainted, it's troublesome to search out a hotel, scenery, traffic or featured eating house for a trespasser. At this state of affairs, you’ll resort to your sensible phone that you usher in your pocket. The City Guide System is an mobile application is used to communicate with the different cities and help us to know the details of the city/cities. The prime objective of “City Guide” is to create a full fledged Android application. This application will guide the user for facilities such as School, Colleges, Hospitals, Restaurant, ATM, Bakery, Banks, Book Shops, Hair Care, Bus Stops, Cafes, Rentals, Super Market, Gyms, Laundry, Court, Parking, Malls etc. This application also facilitates the user to find out the hotels and hospitals in nearby areas within the cities. The application allows the user to share the information by email or SMS. The prototype implemented includes basic functionalities of city guide such as showing a map, locating points of interest (POIs) on a map, locating location of a user, retrieving information of POIs, add reviews about POIs, plan a tour, support communication (e.g. phone, short message), show route direction to POIs, add reminder, and choose different kinds of POIs to show on map.

Abstract:

The City Guide System is an mobile application is used to communicate with the different cities and help us to know the details of the city/cities. The prime objective of “City Guide” is to create a full fledged Android application. This application will guide the user for facilities such as School, Colleges, Hospitals, Restaurant, ATM, Bakery, Banks, Book Shops, Hair Care, Bus Stops, Cafes, Rentals, Super Market, Gyms, Laundry, Court, Parking, Malls etc. This application also facilitates the user to find out the hotels and hospitals in nearby areas within the cities. The application allows the user to share the information by email or SMS.
The prototype implemented includes basic functionalities of city guide such as showing a map, locating points of interest (POIs) on a map, locating location of a user, retrieving information of POIs, add reviews about POIs, plan a tour, support communication (e.g. phone, short message), show route direction to POIs, add reminder, and choose different kinds of POIs to show on map.

2.1 Existing Mobile City Guides and Similar Solutions

In this chapter, I shortly describe some city guides or related applications, some of them are products in the market, and some are for research or students’ projects. We can summarize solution methods and functional requirements from them. According to their features of functionalities implemented, I divide them into different groups:

Information Guide is focus on providing information like restaurants, bars, museums, movies, ATM, parking lots and so on in a city. Usually, they don’t have automatic localization.

Event Guide emphasizes on providing information about current events around user’s position in a city. Sometimes, they also provide information about nearby bars, hotels, parking lot and so on. Navigation Software puts navigation support as its main feature.

Tailor able Software enables users to tailor their visit based on their personal interest, and tailors the information they want. In addition, I list other applications briefly, some of them can let users to add review, some support audio navigation, some are the solutions based on browser.

3 City Guide Over ANDROID:

Android is basically an operating system for smartphones. But we find now integrated into PDAs, touch pad or televisions, even cars (trip computer) or netbooks. Developers create applications in Java. . It includes some important features like 3D graphics, Media support for common audio, video, and still image formats (MPEG4, H.264, MP3, AAC, AMR, JPG, PNG, GIF), GSM Telephony, Bluetooth, 3G, Wi-Fi, GPS depending on hardware capability of mobile devices.

HIGHLIGHTS OF ANDROID:

Firstly, Android is open-source platform. Secondly, Android enables reuse of components. For example, there is one component for editing text files in one application; other applications can make use of the component as needed, of course, the application has released the permission that other applications can use it. Android contains different components types of Activity, Service, Content Provider, Broadcast Receiver in one application and they can communicate through sending intent message. Thirdly, Android can be native access to Google map infrastructure. And it supports GPS localization. Fourthly, its network can work in the way of Bluetooth, 3G or Wi-Fi. Finally, it provides Widgets classes and Layout classes for designing UI. Developers can write UI in XML layout file.

PROBLEM DEFINITION

A Problem definition is usually set up at the end of the problem analysis phase. A problem always has to do with dissatisfaction about a certain situation. A problem definition is a clear description of the issue(s) that need(s) to be addressed by problem solving team. A problem statement is the description of an active challenge (i.e. problem) faced by researchers and/or practitioners that does not have adequate solution available. The problem statement should address all the six questions: what, how, where, when, why and who.
The problem occur in existing android shopping application is that here the delivery of the product is only given in metro cities. If the customer want to buy any item but he/she is from ruler area therefore that user will not able to purchase the product online. As we get the product from either a shopkeeper or any dealer is also from metro areas then the shopkeeper or a businessman from a small area will lose their business day by day. Also they include shipping charges plus their delivery time is very slow.

The next problem is about a existing city guide application. Here different app are used for different city. And also the application is not able to share any search information through that app.

REVIEW OF LITERATURE

First paper we referred for literature survey, “LARS: A Location-Aware Recommender System” (Justin J. Levandoski, Mohamed Sarwat, Ahmed Eldawy, Mohamed F. Mokbel) which contains a position alert recommender structure that uses position-based ratings to generate references. LARS achieves Customer rating positions through user partitioning, a technique that influences recommendations with ratings spatially close to querying users in a manner that maximizes system scalability while not sacrificing recommendation quality.

Secondly we referred “Position Detection and Tracking System” (Mahesh Kadibagil, Dr. H S Guruprasad) which proposed the Self-directed location recognition and tracking method enhances the correctness of finding friends and family member’s locations by using GPS and typical web technology. This design includes a mobile client, a repository, a web client and a map service. The mobile user is used to discover location and conduct a notification SMS to user when his/her friends or family members come nearby the user’s zone of path. This location material can be sent to the server and the same information can be achieved and observed using the web consumer by other customers.

Third paper we referred “Design and Implementation of Cinema Online Booking System” (Bo Hang) with the hasty improvement of Internet, people’s day-to-day life has basically been attached from the Internet. After the Internet, without resolution, whether entities or industries, both clients and industrialists, are made on the network of expectation, this new expectation is to get through the network of the greatest things the inexpensive, most practical to find the fastest information, the most money-making products to sell up. As people’s lives getting better, but also many lifestyle changes. But the film still has not changed predilections. Since the film is more and more people see more votes to sell more and more people queuing.

Fourth paper we referred “Automated Location Based Services” (Vedang Moholkar, Prathamesh Hule, Mandar Khule, Sumit Sourabh) which tells about Position based Services offer many benefits to the mobile consumers to recover the information about their current position and manner that data to get more useful information near to their position. With the help of GPS in phones and through Net Services using GPRS, Position based Facilities can be fulfilled on Android based smart phones to provide these value-added services like handset profiling, scheduling alarms. Position based services are a general class of computer program level services used to include specific controls for position and time data as control features in computer programs. However, to the best of our knowledge, none of previous works has studied the problem of location based local marketing mobile Apps.

EXISTING SYSTEM

The existing system is the one which is already developed. Our existing system for an online shopping application is completely for the customers who are in metro city. Therefore the application is not able to give the service to the customer who are live in villages or small town. In the existing system if a customer want to buy any product he/she enter that product and find out the related result about that product. Then customer select the item and again there are two options for payment either online transaction or cash on delivery. After selecting and payment option user order that product. After ordering the product as it comes from metro cities it take couple of days for delivery. Therefore if we want that product today then we have to order it before 10 to 15 days. And it apply the delivery charges.
The next existing system is for a city guide application. Here the different city guide application are available for different cities. The user has to go around searching for the application that contains the details of the required city. It is time consuming to search the details in this manner. Similarly details such as nearby hotels and hospitals are not available in a single application. Also if we want to share the searching information then here in this application it is not able to share this information directly. PROPOSED SYSTEM

The proposed system is the one which we are developing. In our proposed system our project entitled “Smart Shopping App” here we are developing an android application for product based shopping and for city guide to the user.

It contain four main module are as follows:

1. **Admin Module**
   - Admin module can give the access to the user and shopkeeper for to use the application. Admin can add or delete the shops. And he can provide the information about the city.

2. **Shopkeeper Module**
   - Shopkeeper can add, delete, update and modify the information of shop and product.

3. **City Search Module**

4. **User Module**
   - In our proposed system we allow the user for product based shopping. Here user need to enter the product and then application give the various results related to that product. The best thing about our application is that it is developed for the small town people. We can search the product by randomly or nearby location. The shopkeeper or a businessman who are from small town they can register and enter the product or their shops. Because of this, the small town people can grow their business. And here as we are searching for the product from our own city so we get the delivery within 30 to 40 minutes and shipping cost is also not apply.

The next is city search module here we guide the user for the city. User has to either enter the location or enter the name of hospital, college, ATM etc. Here user can directly share the information about places.