

SOCIAL REGISTER ANDROWEB APPLICATION FOR GOA

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ABSTRACT

A lot of surveys revealed that youth are very much attracted and addicted to smart phones. This craze for smart phones is increasing day by day. Functions based on location have very much importance in our current life. The “social register app” uses GPS functionality that provides exact coordinates of the customer, using which the application can find closest business places like Restaurants, doctors, food marts etc, to visualize his relative geographic location in real time. Web application provided is used by the business owner to advertise about their business place and to search the desired business place as well. Main objective is mobile application that will only get data through database. A server side component is responsible for the database and synchronization services.

Key Words: GPS, Android, Search.

1. INTRODUCTION

The “Yellow Page App” is a GPS-based mobile application which helps people to find the closest business places based on the user’s current position and other specification like contact number timings and more. The application would be free to download from either a mobile phone application store or similar services. In the current conventional system, the customer finds it difficult to search for a business places and their contact numbers using the yellow pages book. It is time consuming and we need to carry the book everywhere we go.

1.1 RELATED WORK

Location-based services or LBS [5] refer to ‘a set of applications that exploit the knowledge of the

geographical position of a mobile device in order to provide services based on that information.’ Location-based services (LBS) provide the mobile clients personalized services according to their current location. They also open a new area for developers, network operators, and service providers to develop and provide value-added services. Over last few years, the smart phones have taken over the market in India. These smart phones come equipped with GPS functionality which provides the latitude and longitudes of the user location using less battery power. Kushal Singhal, Gandhar Rane [4] worked on location based reminders. They concluded that such application make reminders more location aware by adding latitude and longitude as compared to traditional time based reminders. Manav Singhal , Anupam Shukla[3] emphasized on constraints that appear in location based services. They highlighted technological constraints that is mapping under the geographical information system (GIS) needs to be more comprehensive. Infrastructure constraints lack of spread of the wireless network into the countryside. Abhijeet Tekawade , Ahemad Tutake introduces a mobile tracking application based on Location based service to track and locate the mobile device using geographic coordinates of the user as a location provider it helps the user to locate their friends and receive alerts. This application also ensures the security of the user, which is necessary in case if the user is woman.

2. SYSTEM ARCHITECTURE

2.1 Existing System

Used to search business places with a specific geographical area and to advertise business places. Yellow pages book refers to a telephone directory

of businesses with specific geographical area, organized by category rather than alphabetically by business name and in which advertising was sold. Its drawback are, it was time consuming because we had to search the place manually from

the book and carry the book everywhere. It was costlier to advertise a business place because annually the books were printed with all the updates together.

2.2 Proposed System

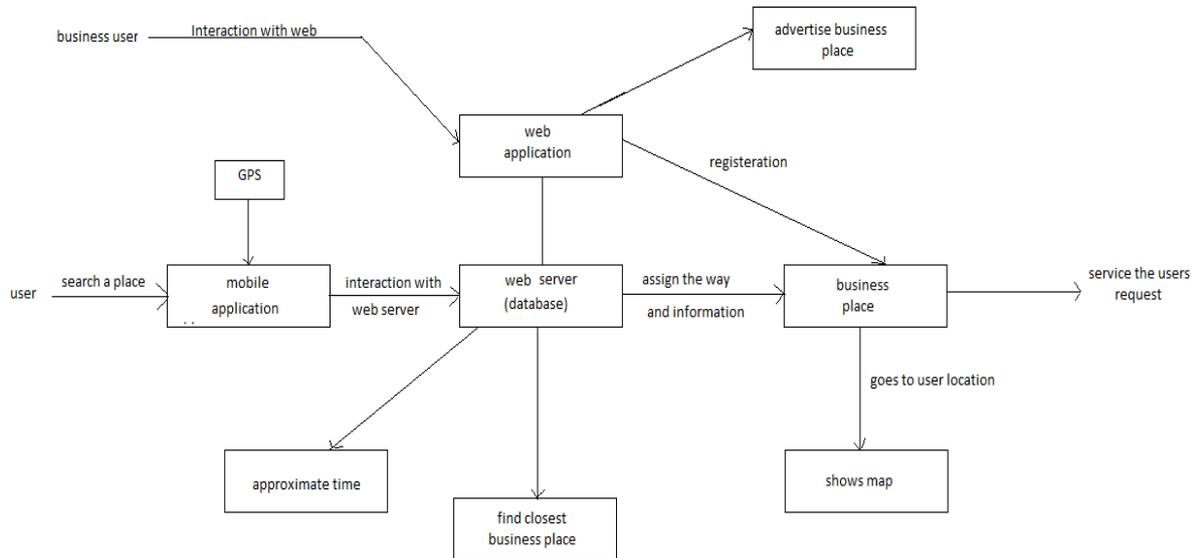


Fig no1: Basic block diagram for app showing various entities and their functions

- This system will consist of two parts: one mobile application and one web portal. The mobile application will be used to find business places and view information about them while the web portal will be used for managing the information about the business places and the system as a whole. The mobile application will need to communicate to a GPS application within the mobile phone to find the location of the user, see Figure. The GPS will provide the mobile application with locations of both the user and the business place and the distance between them, but it will also provide maps and the functionality to display the application's data on the map. The functionality provided by the GPS will be embedded into the application in order for the user to be able to use the functions in the application in a seamlessly manner.
- Since this is a data-centric product it will need somewhere to store the data. For that, a database will be used. Both the mobile application and web portal will communicate

with the database, however in slightly different ways. The mobile application will only use the database to get data while the web portal will also add and modify data. With the mobile application, the users will be able to search for business places. The result will be based on the criteria the user inputs. There are several search criteria and it will be possible for the administrator of the system to manage the options for those criteria that have that.

- The result of the search will be viewed either in a list view or in a map view, depending on what criteria included in the search. The list view will have one list item for each place matching the search criteria and show a small part of the business place information so the user can identify that place.
- The map view will show each place location as a pin on the map as well as the user's own location. In both views the users will be able to either select a place as target destination or get information how to get there, or view the information of a specific place. The web portal

will provide functionality to manage the system and the business place information.

2.3 Search

Search features a powerful integrated search engine that allows users to find specific places such as restaurants, beauty salons, cafe, hotels, hospitals, doctors and dentists etc, near their current geographic location. The results are displayed as a list, showing the name, address, phone number and ratings. User can also obtain driving directions to any place found the place for future reference. Note that the functionality provided by this feature can also be accessed by performing a Google search using a web-browser app on the mobile phone. However this requires considerably more clicking, zooming, and waiting for the page to load, making it very time-consuming and cumbersome to find things quickly. The search nearby feature provides an integrated mobile solution that makes it faster and easier to locate nearby places and find relevant information quickly.

2.4 Scenario

The mobile application will need to communicate to a GPS application within the mobile phone, which in turn communicates with a physical GPS device to find the location of the user. The GPS will provide the mobile application with locations of both the user and the business places and the distance between them, but it will also provide maps and the functionality to display the application's data on the map. The functionality provided by the GPS will be embedded into the application in order for the user to be able to use the functions in the application in a seamlessly manner.

- Search for local businesses by using your device's GPS
- Locate businesses near you with map search
- Zoom, pan and find your current location with interactive maps
- Find Businesses that service your area.

3. IMPLEMENTATION

3.1 Searching

With the mobile application, the users will be able to search for business places. The result will be based on the criteria the user inputs. There are several search criteria and it will be possible for the administrator of the system to manage the options for those criteria that have that. The result of the search will be viewed either in a list view or in a map view, depending on what criteria included in the search. The list view will have one list item for each place matching the search criteria and show a small part of the business place information so the user can identify that place. The map view will show each place location as a pin on the map as well as the user's own location. In both views the users will be able to either select a place as target destination or get information how to get there, or view the information of a specific place. Web application is used by the business/owner to advertise about his business place and to search the desired business place as well.

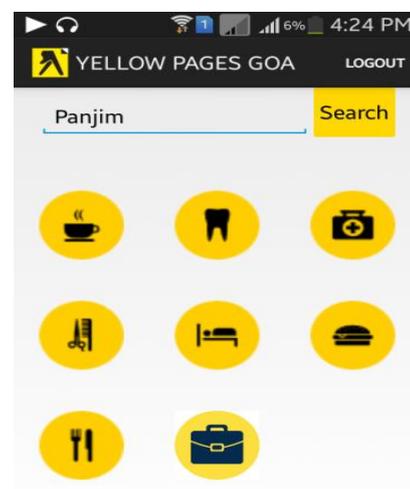


Fig 2: Search Operation

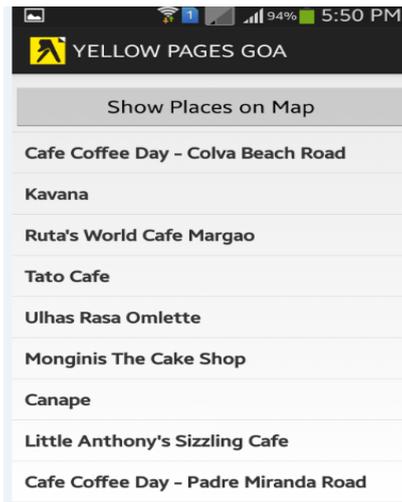


Fig 3: Search Results

3.2 FUNCTIONING

Android APP: Searching the business location

- On either a successful login or registration or using skip option, search page will be displayed fig 2. In the search bar user has to enter the desired location, after entering desired location the list view of the nearby business location will be displayed to the user. The user can click on the nearby business place to get the more details about the business location. Depending upon the current location the nearby business location will be displayed in the map view. Whenever user chooses a category, nearby business places will be displayed based on his current location in the form of list view fig 3. Once the list view is displayed to the user upon choosing the business place, the details like name, address, phone number of a corresponding business place will be displayed.
- On clicking the button 'show places on map', the nearby business location will be displayed on the map based on the current location fig 4.

Website: Searching the business location

- The user should choose the corresponding business place from the places provided.

- Upon pressing the search button, the details about that particular business place will be displayed to the user. This page will show the nearby business location from the current location on the map. The marker is drag able and user can change its position according to his needs. Once user done with dragging of marker he shall click submit and the particular business place will be displayed.

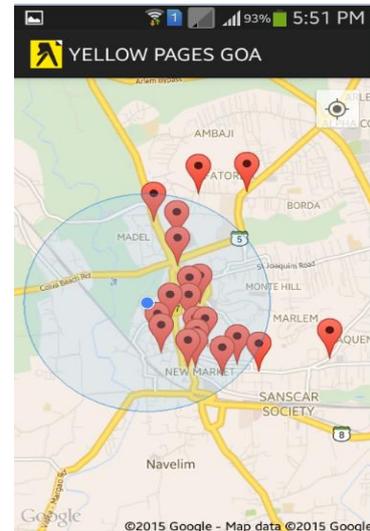


Fig 4: Map view of search Results

4. CONCLUSION

In this paper, we discussed about Existing System and the proposed system architecture and its work flow. Application was designed for android mobiles and Desktop systems based on location information. Different services provided are summarized and categorized. Location information gets used more and more often in people's daily life. This paper focuses on communication related location-based services, GPS and system Architecture. Our system basically starts off with the customer wanting to search a business place, where by using our application to do the same. A place will be selected, based upon the minimum distance along the roadways between the current place of the customer and the searched place with the help of a GPS device.

5. REFERENCES

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