

An Android Application for Small Sector Workers & Business

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Abstract— This application is going to be basically a location based service app. where user needs are to be posted on app and those need are directed towards the service providers then the service provider may respond to the requirement via a call or putting bid under the requirement using this app. The overall idea of this application is to minimize the time we spend in finding the appropriate worker to do our household job. So question arise how this app basically going to work and minimizes the overheads of finding the self-worker to do our job? Well answer is , when someone who is in need of some kind self-worker to do his certain type of job let us say if a person living in Rajarampuri area of Kolhapur city is in need of electrician to do his office wiring and other electric work . What is he supposed to find someone manually who do his job go out and search person in the city but this way is time consuming and too much overhead. So instead of going the manual way what he can do is download our app register himself on the app and he just need to select his city and the location that is Rajarampuri in this case. After that he need to select electrician as service provider and the fill the work details that are required and simply post it. After posting it the electrician in his area will get notification on his mobile about the work and the he can respond to the worker. Thus minimize the overhead of finding the self worker.

Key words: Location Based Services (LBS), Service Providers (Self Workers), Small Sectors, Area wise Services

I. INTRODUCTION

In day to day life we all have a need of some sort of small sector workers like plumber, electrician, carpenter, welder, interior designer, shipping and many more. But it is kind of tedious work to find the good worker to complete our task Traditional way of hiring such worker is to directly contacting them and asking them to do certain work of ours. To avoid or simplify this we have decided to develop an android application which would help to find such workers. This application is beneficial for both the user and self worker. User and worker need to install this application on his mobile and register with this. Here worker have a need to register with corresponding address. If any user is going to hire any worker to do certain job then he has to post his need then self worker from particular area will get a notification and if self worker is interested in that job then he will contact the user. Those workers who do not have an android mobile will get text message.

The manual way or traditional way of finding the small sector worker is kind of tedious problem. In regular way whenever we need self workers to do our job we contact them and wait until they come and do our work .Our project "An Android App For Small Sector workers or Business" is an application that we are going to develop keeping in mind the small sector worker's need. User can post their requirement .Workers in the specific area where the requirements has been posted will be notified on their

mobile phone. Then workers, only if he is interested in the work will approach the user. Here in our system user just need to post requirement and he will get call from workers from his area

This Application would be useful for common people. In day-to-day life we all need such small sector services so this App would be useful. In short this App is useful for both users and workers.

II. LITERATURE REVIEW

A. Small Scale/Sector Business

The small scale sector has played a very important role in the socio-economic development of the country during the past 50 years. It has significantly contributed to the overall growth in terms of the Gross Domestic Product (GDP), employment generation and exports. The performance of the small scale sector, therefore, has a direct impact on the growth of the overall economy. The performance of the small scale During the one year period i.e., 2013-14 over the number of SSI units is estimated to have increased by 1,58,000, production at current prices by Rs. 72,609 corer and at constant prices by Rs. 33,714 corer. Employment increased by 7, 14,000 persons, while exports were higher by Rs. 5,778 corers.

According to projections made by the Ministry of Small Scale Industries during 2013-14, the SSI sector recorded growth in production of 8.09 per cent over the previous year.

The small scale industries sector has recorded higher growth rate than the industrial sector as a whole (4.9 per cent during 2013-14). It contributed about 40 per cent towards the industrial production as a whole and 35 per cent of direct exports from the country. The Government has been taking various measures from time to time in order to enhance the productivity, efficiency and competitiveness of the SSI sector.

References: The National Institute for Entrepreneurship and Small Business Development of India.<http://niesbud.nic.in/>

B. Location Based Services (LBS) Using Android Mobile App

The motivation for every location based information system is: "To assist with the exact information, at right place in real time with personalized setup and location sensitiveness". In this era we are dealing with palmtops and iPhones, which are going to replace the bulky desktops even for computational purposes. We have vast number of applications and usage where a person sitting in a roadside café needs to get relevant data and information. Such needs can only be catered with the help of LBS. These applications include security related jobs, general survey regarding traffic patterns, decision based on vehicular information for validity of registration and license numbers etc. A very

appealing application includes surveillance where instant information is needed to decide if the people being monitored are any real threat or an erroneous target. We have been able to create a number of different applications where we provide the user with information regarding a place he or she wants to visit. But these applications are limited to desktops only. We need to import them on mobile devices. We must ensure that a person when visiting places need not carry the travel guides with him. All the information must be available in his mobile device and also in user customized format.

C. Android App For Small Sector Workers

Location based service (LBS) for small sector workers is emerging as a killer application in mobile data services thanks to the rapid development in wireless communication and location positioning technologies. Users with location-aware wireless devices can query about their surroundings (e.g., finding self workers like plumber, electrician, welder, fitter, shipping, home décor, pest controller and many more) at any place, anytime. While this ubiquitous computing paradigm brings great convenience for information access, the constraints of mobile environments, the spatial property of location-dependent data, and the mobility of mobile users pose a great challenge for the provision of location-based services to mobile users. Over-view of location based Services:

A location-based service (LBS) is a mobile application that is dependent on the location of a mobile device, like mobile phone.

1) Defined LBS Services As Follows

“Services accessible with mobile devices through the mobile network and utilizing the Ability to make use of the location of the mobile device “Open Geospatial Consortium”

2) Defined LBS Service Similarly

“A wireless-IP service that uses geographic information to serve a mobile user, any application service that exploits the position of a mobile terminal.”

III. PROBLEM STATEMENT

A problem statement is clear description of issue in our case that means in case of our problem the problem is , it is really a time consuming overhead to find the good self worker. As self workers and everywhere doing their job but few of them are really expertise in their job others may be beginners or not having the proper skill set. So problem is when I need a self worker to do my job I need to spend almost hours to find him tell him what to do ask him for his budget and request him to come on time to do our job well this is really too much to find a self worker isn't it. The problem can described with using 5 'W's like who is selfworker rather who is good self worker in my area? , Where can I find him? What are his fees? Will he be on time? Will he be able to do it correctly as per my requirement?

To all of this issue and problem we tried to find a solution through our application. Our application almost gives answers to all the above problems. Using our app user can find a self worker with good job skills and with affordable service cost within lees amount of time. We have tried to simplify the process of hiring the service providers

through ease using applications grate user interface and its faster ability to reach to the service providers.

IV. PROPOSED WORK

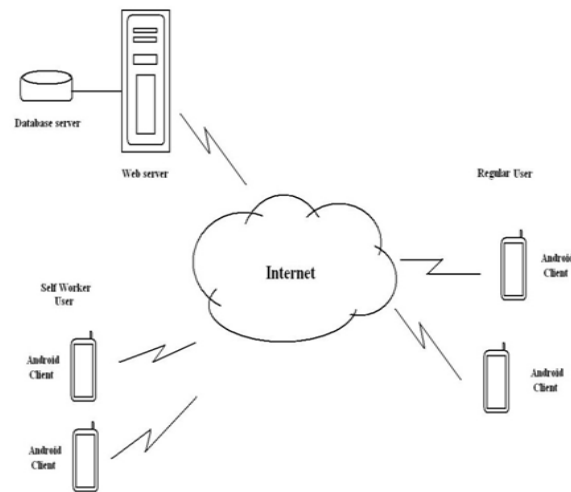


Fig. 1: System Architecture

The purpose of this project is to fulfill the local worker's need by providing him location based service through android application. This application is very useful for both the user and the worker also. This system is very efficient and less time consuming. Here what we mean by a self worker is that a worker who does works for himself he may or may not be working for any company.

What we have done is whenever a user posts his requirement related to his need of service the self working matching the requirements gets alert on his smart phone about the requirement , there may be more than one self worker matching the requirement all of them will get alert and those who are interested in the offer will respond to the person who has placed that offer via a bid under the requirement or he could directly contact the person who placed the requirement. So basically what we have done is we tried to overcome the overheads of finding the service provider or we can say we had minimizes the overhead to find the skilled service provider within less time.

V. MODULES

A. User Registration

At 1st there is need to register with this app user can register with this app with name, email id, contact number, gender (male, female) and with proper password.

B. Login

Registered user can login with their user id and the proper password and after that they can post their need accordingly.

C. Regular User Submit Home Job

User can login with their user id and password and can post their need on the app box provided by us.

D. Self Worker Notifications

After user posted their need there is a notification on workers mobile about the job. And then if the job is relevant to the worker then they can contact with the user by their contact number registered on the application home.

E. Self Worker Response

When there is a notification on the self worker's mobile then if the self worker is interested in the posted job then they will give response to the user.

F. User Notification

And at last when the self workers will response to the post there will be one notification on user's mobile about that response.

VI. EXPERIMENTAL RESULTS

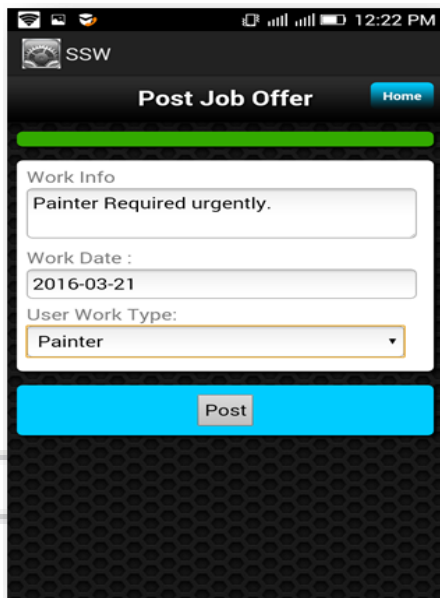


Fig. 2: Post Job Offer

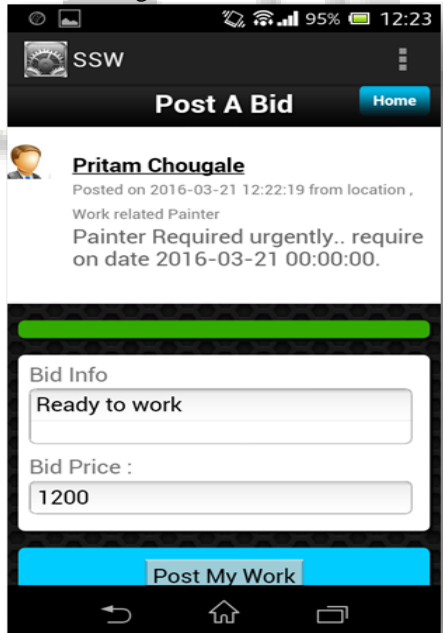


Fig. 3: Post a Bid

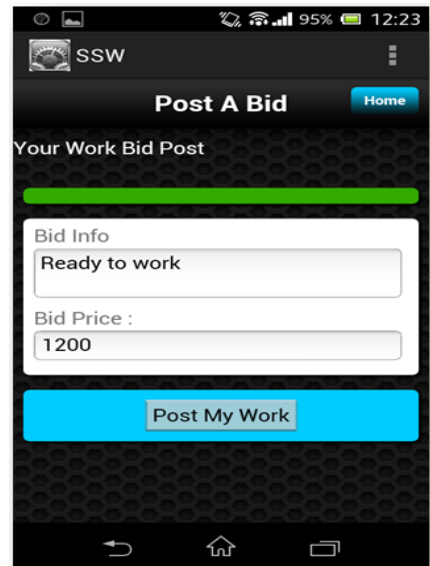


Fig. 4: Bid

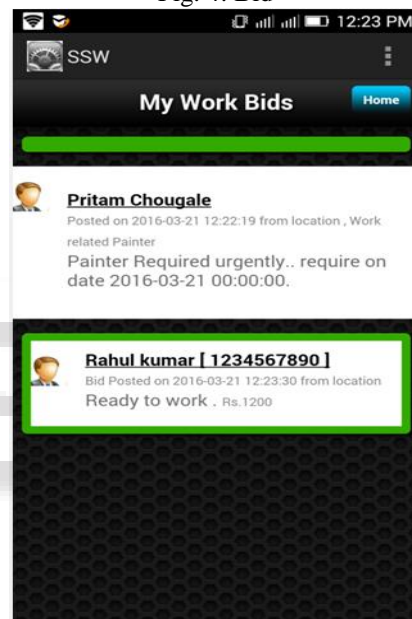


Fig. 5: Notification

VII. CONCLUSION AND FUTURE WORK

Initially mobile phones were developed only for voice communication but now days the scenario has changed, voice communication is just one aspect of a mobile phone. There are other aspects which are major focus of interest. Two such major factors are web browser and GPS services. Both of these functionalities are already implemented but are only in the hands of manufacturers not in the hands of users because of proprietary issues, the system does not allow the user to access the mobile hardware directly. But now, after the release of android based open source mobile phone a user can access the hardware directly and design customized native applications to develop Web and GPS enabled services and can program the other hardware components like camera etc. Our application uses LBS and it can also work without LBS so in order to find nearest service such as small scale service application can help user to find shipping, home decorators, gas filling station, pest control, plumber, carpenter, electrician or any other facility of interest indicated by

user within certain range. Just like a GPS device its location will also be updated as soon as user changes his/her position or selects different location from the available list.

The application we have designed is currently tested within small area of Kolhapur city. In the future we have a plan to increase the area of operation of the application. We have a plan to make this application globally useful to access anywhere in the world.

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