

# Implementation of Android Application for Identification of Smart Skilled Labours Using GPS

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**ABSTRACT:** In today's busy world, time saving is one of the constraints which people look forward to. So people have no time to search labours to get their work done. In the case of emergencies Searching for skilled labour is very tough task in today's world. So through this system people can search the skilled labours easily whenever required. This saves the time for searching labours and also customers can find labours at affordable cost. The system also helps to search the labours in vicinity. In this system we use GPS (Global Positioning System) device for updating the current location of customers and labours. This system will work on android mobile phones of users which will help to communicate with the central database to fetch real time location based data. When the user is in need of skilled labour then he/she can use the proposed system to find skilled labours in vicinity. Then the system will display list of skilled labours in nearby area to them.

**KEYWORDS:** Android mobile phone, vicinity, GPS.

## I. INTRODUCTION

To find skill labours information is difficult in today's world and it is time consuming for people to search skilled labours. In today's world, time is the most important commodity. The System has GPS (Global Positioning System) which helps in location tracking of customers and labours. GPS also helps the system to list the skilled labours according to nearby location of customers. This saves the time for searching labours and also customers can find labours at affordable cost. The system also helps to search the labours in vicinity. In this system we use GPS (Global Positioning System) device for updating the current location of customers and labours. This system will work on android mobile phones of users which will help to communicate with the central database to fetch real time location based data. When the user is in need of skilled labour then he/she can use the proposed system to find skilled labours in vicinity. Then the system will display list of skilled labours in nearby area to them. Location Based Service (LBS) is a kind of service that helps in getting the geographical location of the user and more useful information near to the user location [1].

## II. LITERATURE SURVEY

[1] Ankita Tarale, Shreedhar Niradi, Kishori Patil, Sadhana Patil, Alfiya M, "Identification of Skilled Labor using Optimized Search Algorithm" Paper Published in International Journal JASC Volume VI, Issue V, ISSN No (1076-5131) May 2019.

In today's world, time is the most important commodity. Time saved is Money saved. Searching for skilled labour in case of emergencies requires one to search the telephone directory, white pages for searching the required skilled labours. This needs time and there will be chances that the contact may not be available, since these white pages magazines are updated quite rarely (Yearly). Hence the application can help to search for skilled labours. It is also required to search for skilled labours in close proximity, so that the labour cost can be reduced. soon as labour changes his/her position.

[2] Mahesh Kadibagil, Dr.H.S guruprasad, "Position Detection and Tracking System", International Journal of Computer Science and Information Technology & Security (IJCSITS), Vol.4, No.3, June 2014

The rapid development of mobile internet technology and wide usage of Smart Phones, more attentions have been given to network access techniques and interactive applications through mobile phones. Android which is an open

source has become most popular smart phone used by people. In recent years, more and more people have started using the smart phone, laptop, PDA and other mobile devices.

**[3] Pankti Doshi, Pooja Jain, Abhishek Shakwala, "Location Based Services and Integration of Google Maps in Android", International Journal of Engineering and Computer Science, Volume 3, Issue 3 March, 2014 ISSN: 5072-5077.**

In today's scenario, mobile computing has advanced to such an extent where the user has access to all the information on a single device. Today people are always moving with mobile devices like laptops, cell phones, tablets etc. Using the user's geographic location, a lot of information related to the user of the mobile device can be collected. The knowledge of mobile user's location can improve the class of services and applications that can be provided to the mobile device user. These classes of applications and services are termed as location based services. Location Based Service (LBS) is a kind of service that helps in getting the geographical location of the user and more useful information near to the user location.

**[4] Amit Kushwaha, Vineet Kushwaha, "Location Based Services Using Android Mobile Operating System "International Journal of Advances in Engineering & Technology, Mar 2011.vol.1, Issue 1, pp.14-20.**

Location based service (LBS) 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 the nearest restaurant or all shopping malls within 5 miles) 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.

**[5] Apoorva Vengurlekar, Kiran Shukla, Dnyaneshwar J.Dhangar, "Location Based Tracking Application Using Android. Mobile Operating System", International Journal of Scientific & Engineering Research, Volume 5, Issue 3, March-2014 821 ISSN 2229-5518**

Location based service (LBS) is a good application in mobile data services due to the rapid development in wireless communication and location positioning technologies. It is mainly implemented using Global Positioning System (GPS).Users with location-aware wireless devices can query about their surroundings at any place, anytime. This ubiquitous computing paradigm brings great convenience for information access. Using this environment the application is been implemented in which the user can on demand message to its contact its current position with the other attributes such as photograph of its surrounding.

### III. EXISTING SYSTEM

The system will work in the android mobile phones for users which will communicate with the central database to fetch real time location base data. In this system labour can fill his information details. When the user searches for any skill labour for any work using this system, the system will display list of skill labour in close proximity .The system which will record details of labour skill in central server along with the labours current location.

#### 3.1 Disadvantages of existing system

- It does not contain GPS connection.
- It requires more time for execution.
- It did not work in real time.
- It was not a user friendly system.
- the data is updated once in a year

### IV. PROPOSED SYSTEM

We propose to develop application which will record details of labor's skills in server along with labor's current location. For tracking current location of customer and labors GPS is used. And make it available on demand. So that the time of arrival and the cost involved is reduced. This application also includes the added modules which maintains data of all the registered skilled labors and updates current location of all the skilled labors. Hence provide efficient and easy way to search the skilled labors. The system will work in the smart phones of users which will communicate with the central database to fetch real time location based data.



4.1 Advantages of proposed system

- It will work in real time.
- Proposed system is user friendly.
- Proposed system includes GPS connection.
- Time efficient.
- The time of arrival and the cost involved is reduced.

V. IMPLEMENTATION

**SYSTEM FLOW:**

**Design app using android studio:**

As Android devices become increasingly more common, demand for new apps will only increase. Android Studio is an easy to use (and free) development environment to learn on. It's best if one has a working knowledge of the Java programming language for this tutorial because it is the language used by Android. There won't be much code used in this tutorial, so I will assume that you know enough Java to understand or are willing to look up what you don't know. This will take roughly 30-60 minutes, depending on how quickly you are able to download and install Android Studio. After using this tutorial to create your first Android app, you'll be well on your way to a fun new hobby or possibly even a promising career in mobile development.

**Development using android studio**

There are two fundamental concepts that you need to understand about Android apps: how they provide multiple entry points, and how they adapt to different devices.

1. Apps provide multiple entry points
2. Apps adapt to different devices

**Implementation using J2EE**

The Java™ 2 Platform, Enterprise Edition (J2EE™) addresses this need by providing a well-documented, standards-based framework for developing and running distributed, multi-tier, component-based Java applications. This framework handles much of the low-level complexity of the application, such as remote connectivity, naming, persistence, security, and transaction management, leaving developers free to concentrate on the business logic of the application

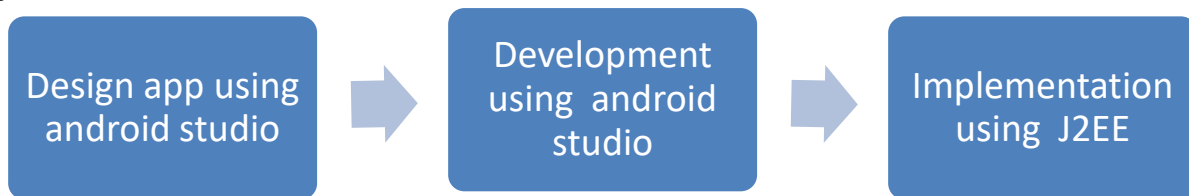


Figure 5.1 System flow Diagram

**System architecture :**

System Architecture is the conceptual model that defines the structure, behavior and more views of a system. This Figure shows the system architecture of the project. The skilled labors information is stored in the database. When the user uses User Application to search for skilled labors according to his nearest location, this information is sent to the server. Then server searches the information of the skilled labors from the database and fetches the data of skilled labors .Then displays the list of the skilled labors according to the users close proximity. The labor will register using Labor Application and skilled labor information is sent to the server. In server the admin can able to view the details of the registered skilled labors and admin can also able to add the skill type and location. Using the labor search application the users will get skilled labor information easily according to the users nearest area.

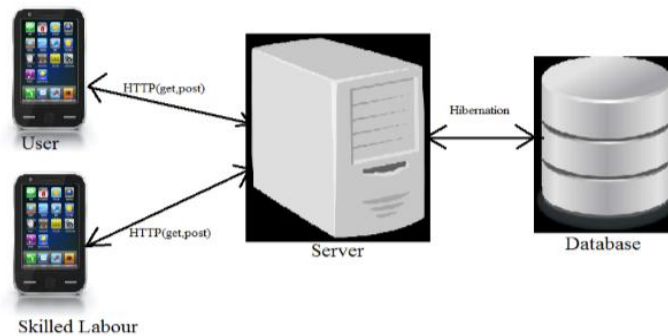


Figure 5.2 System design

## VI.RESULT

The proposed system uses GPS and web technology in order to enhance the positioning experience. The system will work in the smart phones of users which will communicate with the central database to fetch real time location based data. When the user searches for any skill labour for any work using our system, the system will display list of skill labours in users close proximity.

## VII.CONCLUSION

The android application is helpful for users to search skilled and semi-skilled labours and it also helps for the skilled labours. This application will save the time and money and users can search labours according to the skills. It is also required to search for skilled labours in close proximity, so that the labour cost can be reduced and easily available. The system will work in the mobile phones of users which will communicate with the central database to fetch real time location based data. When the user searches for any skill labour for any work using this system, the system will display list of skill labours in close proximity .The system which will record details of skilled labours in central server along with the labours current location. And make it available on demand. The delay for getting the work done will also reduce.

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