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## TAP FOR HELP

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### ABSTRACT

*Currently, the service provider application we have is time consuming and create a lot of clashes as the customers need to pay a minimum fixed service charge even for a minute work which is not worth of that fixed minimum amount. Therefore we have decided to make an android application which will let the customers to specify their problem in house and bring forward the service providers to the dashboard to quote their service charge as per the complication of work and also the distance or the place of the customer and thereby the multiple service providers will start bidding for the posted job. Thus the customer will get a best competitive price for the work.*

**Keywords-** Clashes, Complication, Dashboard.

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### INTRODUCTION

Today, smart phone is not a luxury, but a necessity. Everything can be done through smart phones, be it paying bills, booking flights, shopping or contacting a service person. When technology meets innovation, it makes the lives of both customers and service providers more convenient.[1] TAP for HELP is an on-demand local service platform for household needs. Users can avail services such as hiring a plumber, electrician, carpenter, gardener, getting their car washed, or assembling furniture from among many services. TAP for HELP serves as a marketplace and lets users hire professionals for jobs at home or the office. The project we have undertaken is simple and it helps the people to contact the nearby maintenance worker like Plumber, Electrician , Painter ,Carpenter etc. This application holds a collection of details of maintenance worker consisting of name, contact number, minimum service charge and rating. It allows to store service provider's personal contacts in a centralized secure online database. It allows the user to rate the service provider and also to write a comment for the experience. It allows you to edit and manage contacts collaboratively with your details. This application has some special components like Search the details as per location, Provide experienced and trusted service persons who will give you satisfactory services, Register and Login facility for workers as well as customers, Allows worker to edit its service area and profession, It accepts all kind of major jobs. It will let the customers to specify their problem in house and bring forward the service providers to the dashboard to quote their service charge as per the complication of work and also the distance or the place of the customer and thereby the multiple service providers will start bidding for the posted job. Thus the customer will get a best competitive price for the work. It has some benefits like one tap help, Reduces time and clashes and Easy Home Service by the experienced. The need to design this application is to provide an easy access

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to the service providers of daily maintenance work. It will help the society to install one application and find the workers by just one tap, specially used by the old age people and newly shifted people. Already available applications for metro cities inspired us to make something which can be used for our city Raipur.

## PROBLEM IDENTIFICATION

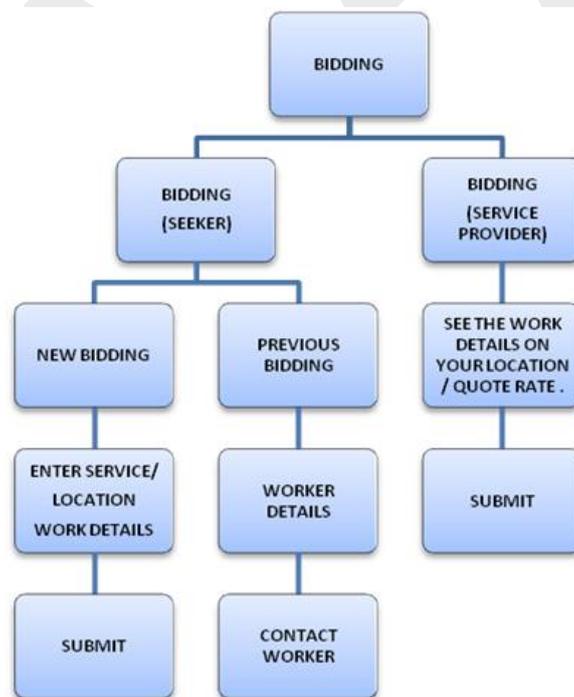
### Existing System

The effectiveness of the system depends on the way in which the data is organised in the existing system, much of the data is entered manually and it can be very time consuming[2]. The service provider applications we have is time consuming and create a lot of clashes as the customers need to pay a minimum fixed service charge even for a minute work which is not worth of that fixed minimum amount. When records are accessed frequently, managing such records become difficult, therefore organising data becomes difficult. The major limitations are Much time consuming, Error prone, Unauthorized access of data.

### Proposed System

The proposed system is fully automatic. It consists of user-friendly interface, as a front end & a Database Management System which handles voluminous data efficiently. The consumption of time to perform the tasks will drastically reduce. All the details will be generated on a single mouse-click. The development of such a system will overcome all the possible mistakes and will improve efficiency of the work as well as give the ease of handling the details can be easy. Thus their precious time can be utilized in some other efficient work. The features are User friendly, Time saving, Enhanced accuracy and efficiency, Utilizes less man power, Eliminates voluminous storage of hard copies and the software uses normalized data structure minimizing redundancy, inconsistencies to large extent, Automation of various calculations & formulations, for very quick and less time consuming reports. It is reliable since formulations are computerized and presence validation checks leads to error free results. Data retrieving capability is high.

## METHOD USED



**FIG-1: Registration Process**

We have used RAD approach to develop this application. RAD stands for Rapid Application Development. RAD is used to develop a software rapidly as it focuses more on development rather than planning the tasks. In RAD model the functional modules are developed in parallel as prototypes and are integrated to make the complete product for faster product delivery. Since there is no detailed preplanning, it makes it easier to incorporate the changes within the development process. RAD projects

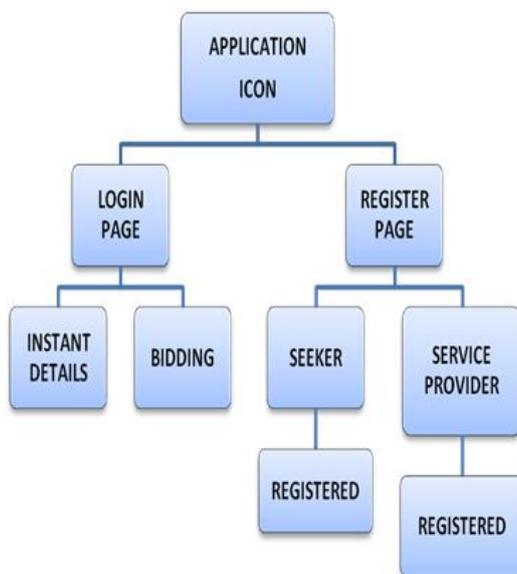
follow iterative and incremental model and have small teams comprising of developers, domain experts, customer representatives and other IT resources working progressively on their component or prototype.[3]

- a) **Requirements planning phase:-** It combines elements of the system planning and systems analysis phases of the Systems Development Life Cycle (SDLC).
- b) **User design phase:-** During this phase, users interact with systems analysts and develop models and prototypes that represent all system processes, inputs, and outputs.
- c) **Construction phase:-** It focuses on program and application development task similar to the SDLC. In RAD, however, users continue to participate and can still suggest changes or improvements as actual screens or reports are developed.
- d) **Cutover phase:-** It resembles the final tasks in the SDLC implementation phase, including data conversion, testing, changeover to the new system, and user training. [4]



**FIG-2: Workflow of Bidding**

**FLOWCHART**



**FIG-3: Workflow of Instant Details**

## **WORKING PRINCIPLE**

Firstly the user will click on the Application icon which will take the user to the page to choose from Login or Register options. Once the REGISTER option is chosen the user will be directed to the registration page and there again the user will have to choose the option of Seeker or Service Provider. After filling the registration form the user will get permanently registered on the application. After choosing the LOGIN option, the user will have two options, the instant details and the bidding option. Once the user has chosen the INSTANT DETAILS option, then the user just has to search for the worker details by entering the service he wants to take and the location in which he wants the service and he gets all the details of the workers including the worker's name, contact number, rating and the minimum service charge he/she will take. On the other hand, if the seeker chooses for the BIDDING option then the seeker is being directed to the next page with the option of New Bidding or PREVIOUS BIDDING. If the seeker chooses the first option then he/she has to enter the service, location, and the entire work detail, then the seeker has to submit his form, which will be shown to the nearby workers. If the seeker chooses Previous Bidding option then he just has to go through the details of the workers and contact the appropriate worker as per his required work.

## **DISCUSSION AND CONCLUSION**

### **Discussion**

The home assistant application named "TAP for HELP" is initially being developed for the people living in Raipur. Thus its logic is built up basically for the people who face difficulty in searching for the appropriate worker for their required work. The application is ready for a single device, in it we can see the list of the Service Providers and can contact for the work. The GUI displays a Menu based interface in which the user has to click on the option to proceed further. The details will be automatically fetched from the device and stored in the database.

### **CONCLUSION**

Thus the Home Assistant application runs only on a single device. The purpose of developing Home Assistant application is to computerized the traditional way of searching the daily maintenance worker. Another purpose for developing this software is to generate a bidding facility amongst the workers. It has revealed that an online system for searching nearby worker is indeed a needed application in order to make the process more efficient and time-saving. The high-end technologies used to develop this system will provide users with rapid access to any information regarding the daily maintenance worker according to their location.

### **FUTURE ENHANCEMENT**

Initially, this application is designed for a single device. It is planned to make the application for the people. So that it can be used in different cities. So in future, we can generalize the application for every other states and cities. Also few features like GPS Tracker and Online Booking can be added.

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