

Join Hands - Webpage to Find Trained Service Professionals

V.Prasanna Srinivasan, J.Jeghithran, V.Nithish Siddharthan, G.V.Sharath babu,
T.V.Senathipathi



Abstract: A web platform to make our urban lives easier to solve their daily needs at single instance. In our modernizing lives the need for workers for our basic needs like plumbing, carpentry etc. goes on increasing. In our website user can find any service professionals like teachers, yoga trainer, wedding photographers, plumbers, carpenters, physicians and so on. Those workers can be termed as a “maintenance worker” or “General Contractors”. A go to platform helping customers to complete the works that are important to their day to day lives. In today’s digital world a maintenance worker gets lower recognition than any other profession has, but their need is very high for each and every one of us. Either they get known by a known person’s recommendation or by self-advertising. But all their all needs satisfied? No. Thus their needs are full-filled by visiting our website. Here every maintenance worker could register themselves and they can be selected by the users who would like to get their service. Here every maintenance worker is given a rating based on which their value increases. So that they can be charged depending on their rating and also the rating helps the user to identify the best suited worker for them. In our web application the workers will be sorted on users rating and users current location from which the user is searching for service. In which user also will be rated by the professionals on how they treated them. The tracking facility will be available and features whether the professionals has accepted their request which was given by the user and tracking facility also shows whether the professional has started the way to user location. The professional has to enroll themselves in our website with types of service they’ll be doing and optional work which they aren’t much trained but with a minimum experience. User has the rights to blacklist the workers which will be then investigated by the admin team on both the side. The main concept of join hands is to create job opportunity for maintenance workers and to raise their quality equal to professional workers. In the users point of view it is to enhance the people’s standard of living without making them worry in search for a professional worker.

Keywords : Contractors, digital world, Internet and Technology, urban lives, users, web application.

Revised Manuscript Received on May 30, 2020.

* Correspondence Author

Dr. V.Prasanna Srinivasan, Associate Professor, Department of Information Technology, R.M.D Engineering College, Thiruvallur,, Tamilnadu, India. Mail: vps.it@rmd.ac.in

J.Jeghithran*, Currently pursuing bachelor’s degree in the stream Information Technology at R.M.D Engineering College, Thiruvallur, Tamilnadu, India .Mail: jjegi99@gmail.com

V.Nithish Siddharthan, Currently pursuing bachelor’s degree in the stream Information Technology at R.M.D Engineering College, Thiruvallur, Tamilnadu, India Mail: nithish.vemal@gmail.com

G.V.Sharath Babu, Currently pursuing bachelor’s degree in the stream Information Technology at R.M.D Engineering College, Thiruvallur, Tamilnadu, India Mail: sharathbabu1299@gmail.com

T.V.Senathipathi, Currently pursuing bachelor’s degree in the stream Information Technology at R.M.D Engineering College, Thiruvallur, Tamilnadu, India.

© The Authors. Published by Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP). This is an [open access](http://creativecommons.org/licenses/by-nc-nd/4.0/) article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/4.0/>)

I. INTRODUCTION

In today’s digital world a maintenance worker gets lower recognition than any other profession has, but their need is very high for each and every one of us. By having these criteria in mind, we are connecting maintenance workers with the trending technology. So this would lead the workers to avoid their income loss. Hence to overcome these kinds of situations, we developed an application and website for the workers to establish themselves. This app will help them to provide the present availability of workers in nearby locations through the internet. This app constitutes features that display price and details and location of worker and user. The existing system is totally a flaw where the workers might not get good recognition at all. The problems in the current marketing system are:

- No proper updated information to the workers about the users in need of their service.
- More involvement of contractors leads to loss in income of workers.

A.User Friendly: The app which developed is user friendly because the retrieval and storing of data about the workers available, transportation booking details and current scheme data is maintained efficiently. The graphical user interface is provided in the proposed system, which provides users to deal with the system easily.

B.Application Control Management: The mobile based control is maintained by representatives, volunteers, administration who updates and controls the entire system. So, there is no scope for errors. Moreover, storing and retrieving information is easy. In this paper we explained the literature survey in subsection II. The subsection III and IV will be describing the design and development of agriculture application and its architecture. The final subsection concludes the paper.

II. LITERATURE SURVEY

The Vision of this paper is establishing easy contact between workers and users by making use of an online system. An application that serves as a bridge for maintenance workers. This web application provides the advantage for both workers and workers or contractors to get or offer services. The volunteers shall analyze the workers, approve them and provide ratings based on quality and reviews provided by users. This makes all the workers available to users easily. Hence it makes the process in an easier manner. This paper addresses these challenges through website. Using this one can, communicate with workers directly.

Hence using this one can increase profit by providing information about all available services.

III. DEVELOPMENT OF JOIN HANDS APPLICATION

For a particular service prices may vary since there are multiple workers available. In mobile applications, the database will queue the incoming requests which increases the time to get the data from the database. We have developed a graphical tool based data flow diagram to analyze and describe the movement of data in the system. From this central tool the other components will be developed. The transformation of data from input to output, their processing will be described independently and logically with the physical components associated with the system. These are known as logical data flow diagrams. The actual implementation and movement of data between people, departments and workstation will be shown in this Physical data flow diagram. The full description of the system comprises a set of data flow diagrams. Each component is labeled with a descriptive name. The DFD's will be developed in several levels. Each process in low level diagrams will be further drilled down into more detailed DFD in the next level. The top level diagram is called a context diagram, and it consists of a single process bit. In first level DFD, the process in this diagram is exploded into other process.

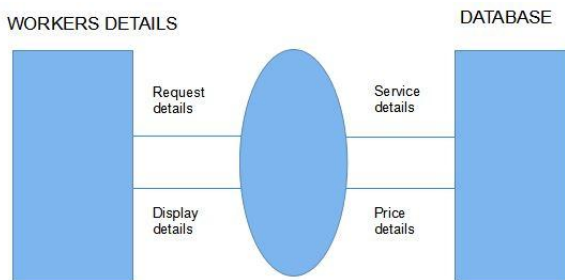


Figure: Level 0 DFD

Data flow will move in only one direction between the symbols. Before an update it may flow in both the directions between a data store and a process In DFD, If the same data comes from two or more different processes the data will be pooled or sink in a common location known as join. In order to avoid losses, this application provides the communication between buyer and seller. It requires a huge database, as it stores huge Volumes of data about all the worker details and all the necessary information needed. This mobile application communicates with the database regarding the details over the internet. All mobile applications may have some restrictions regarding memory storage, but we can avoid this situation by using Amazon S3 bucket web service.

A. Algorithm Behind website (Application):

In real time, Amazon uses item-to-item collaborative filtering, which increases to massive data sets and provides high-quality recommendations. This type of filtering matches each of the user's purchased products to similar products then combines those items and stacks it into a recommendation list for the user. Hence, this is useful for

users to select according to their needs easily by the recommendations.

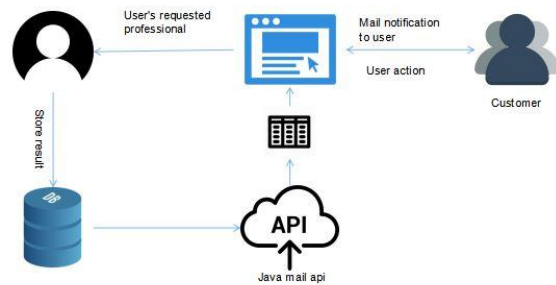


Figure: Algorithm working

II. EXISTING SYSTEM:

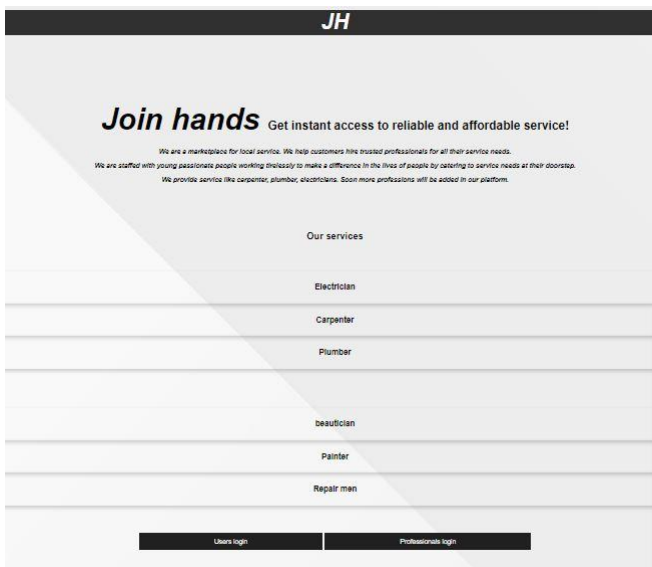
Online platform like Locanto, vivastreet, urban clap which provides marketplace for local services such as repair & maintenance, home cleaning, business services, event management, health & wellness, salon, etc. A platform that helps users opt for premium service professionals, from beauticians and masseurs to sofa cleaners, carpenters and technicians. Urban Company provides a platform that allows skilled and experienced professionals to connect with users looking for specific services. This platform lacks by choosing only within limited professional service and lacks in safety measures such as unwanted activities by customer to professionals or vice-versa also the rating system which will be useful to identify the right ones for the right people. Drawback such as tracking feature and also advanced booking or timed slot booking which will be a pre booking helpful for customer. Also the service offered will be a temporary one, no permanent hiring option is available in this platform which will be useful for customer to hire instead of booking the service for a temporary time period.

III. PROPOSED SYSTEM:

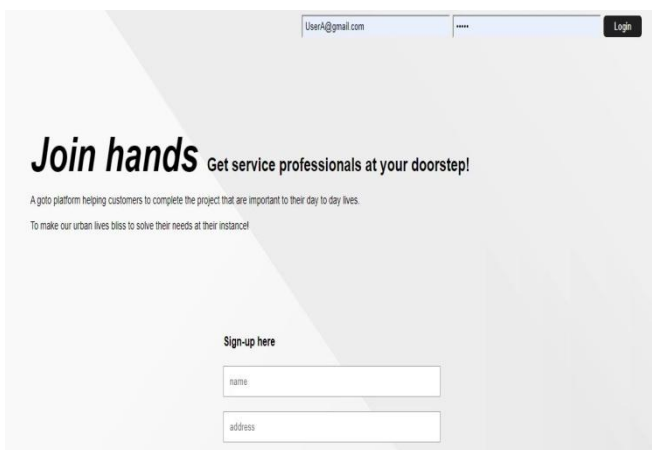
Webpage which provides two different modes of login one as customer and another one for professionals. Customer can login and search for the workers they need and then they can book the service for the current instance work or they can book the slot when the customer needs. In professionals login they'll need to enter their details and types of service which they are expert in and also alternative service which they have some basic experience. Rating plays a major role, only professionals with higher ratings gets frequent service and with minimum will get random unless their rating increases. The professional has to enroll themselves in our website with types of service they'll be doing and optional work which they aren't much trained but with a minimum experience. User has the rights to blacklist the workers which will be then investigated by the admin team on both the side. The main concept of join hands is to create job opportunity for maintenance workers and to raise their quality equal to professional workers. In the users point of view it is to enhance the people's standard of living without making them worry in search for a professional worker.

Safety measures such as emergency features when something unwanted or misconduct by professionals to customer or vice-versa. Customer has the freedom to blacklist the customer if terrible incident occurs from professional side to customer, we'll get to know the incident and the professional profile gets hidden or even blocked if something worse happened while investigating. Tracking feature gets introduced where the activities of the professionals will be sent to the customer as live updates. Hiring permanent option will be present thus for some service like baby sitter, maids, personal physician thus they can hire based on rating and the can be kept permanent (like monthly service) with the customer and in free time they can also visit other customer (if opted) who queries their respect service. Our web application will minimize the hiring work of maintenance workers and thereby providing good opportunities to maintenance workers.

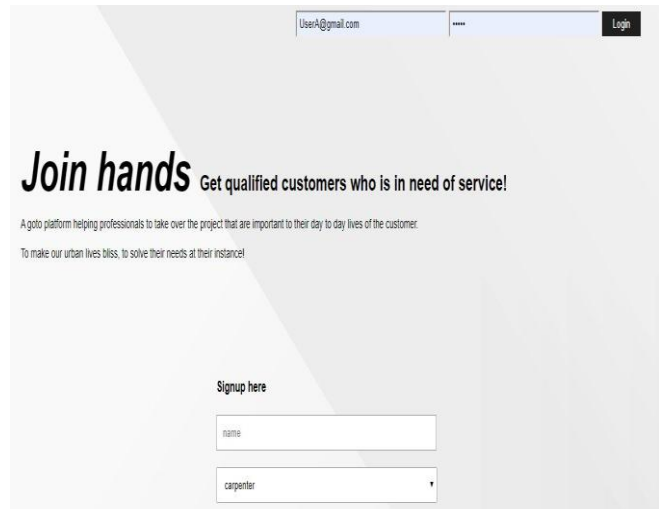
IV. RESULT AND DISCUSSION



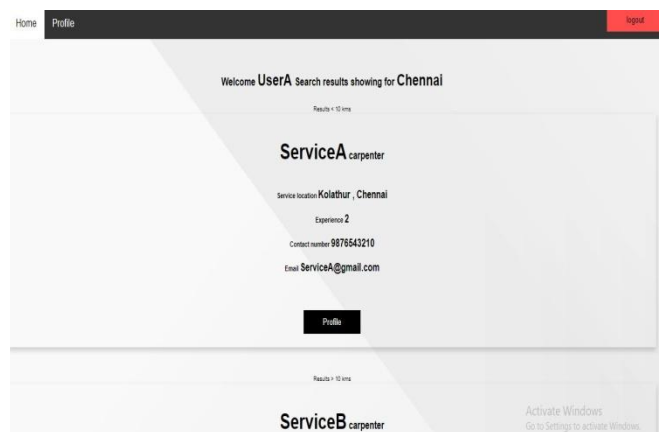
Home page



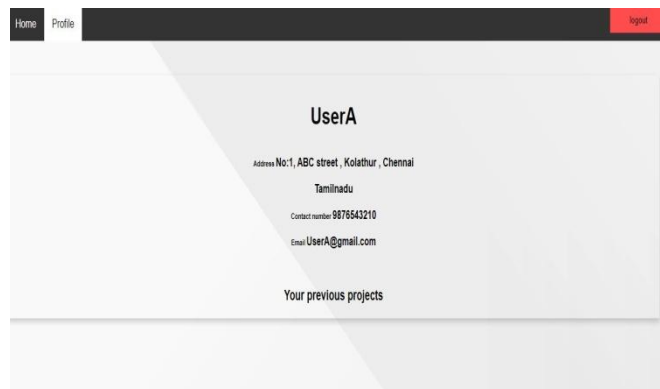
Customer login and sign-up page



Professionals login / sign-up page



User's profile



Professional's profile

V. ARCHITECTURE OF APPLICATION:

The Main functionality of this application is to display the various workers and the services offered by them. It provides a platform for the maintenance workers to get works through mobile phone applications. The app provides the options for language selection like Tamil, Telugu, Hindi and English for registering and selecting a particular service.

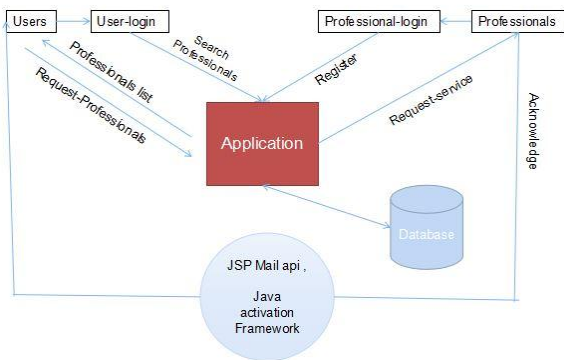


Figure: Architecture of Application

VI. FUTURE ENHANCEMENT:

Website designed will be made as an android app such as it'll get more reach and will be easily accessible. Live tracking feature and professional monitoring feature will continuously monitor the professional activities and it'll update it to the customer even when they're present or not. This service can be further extended to certified service such as doctor, teacher, engineer, etc. With the help of Google map service nearer professionals available can be assigned to the customer from the location where customer seeks need. This will reduce the time spent on travel in professional's side and waiting time on customer side.

VII. CONCLUSION:

The main drawback of maintenance workers is that they don't get enough recognition and also they aren't paid enough for their work. And also from the users side it'll make the process of finding workers very easy in the day to day busy schedule. By using our application every worker gets enough recognition and can contribute to their development. So our application will act a good bridge between the users and maintenance workers.

REFERENCE:

- 1 Bryan basham, Kathy slerra and Bert bates, "Head first servlets and JSP".
- 2 Joel murach, Michael Urban, "Murach's Java servlets and jsp".
- 3 Budi kurniawan, "Servlet and JSP, a tutorial".
- 4 Kishori Sharan, "Java 8 API's, extensions and libraries".
- 5 Maydene Fisher, Jon Ellis, Jonathan Bruce, "JDBC API tutorial and reference".
- 6 Mahmoud parsian, "JDBC recipes a problem solution approach".
- 7 George Reese, "Java database best practice".

AUTHORS PROFILE



Dr. V. Prasanna Srinivasan, M.E, Ph.D., is an Associate Professor in the Department of Information Technology, since December 2006. He obtained his B.E (CSE) from Madras University and M.E (Embedded Systems) from Anna University, Chennai. He received his PhD from Anna University, Chennai.

He has been in the teaching profession for the past 16 years and has handled UG programs. His areas of interest include embedded systems, Design space exploration, fault tolerant systems. He is currently guiding 2 research scholars. He has published 3 papers in refereed International Journals.



Jeghithran J, currently pursuing a bachelor's degree in the stream of Information Technology at R.M.D Engineering College, Thiruvallur, TamilNadu, India. He is interested in the fields of Cloud technology, App development and website development. He has done several projects related to application development. He is a member of ACM student chapter.



Nithish Siddharthan V, currently pursuing a bachelor's degree in the stream of Information Technology at R.M.D Engineering College, Thiruvallur, TamilNadu, India. He is interested in Front end development and website designing. He has done many projects related to website development.



G.V. Sharath Babu, currently pursuing bachelor's degree in R.M.D Engineering College, Thiruvallur, TamilNadu. He has keen interest in app development, cloud technology and data science. He did many projects related to application development.



T.V. Senathipathi, currently pursuing a bachelor's degree in the stream of Information Technology at R.M.D Engineering College, Thiruvallur, TamilNadu, India. She is interested in Front end development. He has done certification courses on responsive web development.