Android Application on Domestic Services - eSEVA

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Abstract. Technology has made life much more comfortable. It is very difficult to find basic services like electrician; plumber etc in a new city. This paper is about developing an android application for users who are basically shifted to a new location. The *app* helps to find nearby services and other useful locations in nearby area. It not only provides vital information like what kinds of services are provided, it also offers user-submitted reviews and ratings. Since the *app* uses mobile device's GPS, it can easily help users to find services nearby. The *app* also offers a few filters to further narrow search, including distance and price. The app's user interface is simple and straightforward, with a dashboard displaying a search bar at the top and a few icons below for additional functions like bookings, services, and feedback. Hence, the *app* is incredibly useful and relatively easy to use.

Keywords: Android, Global Positioning System (GPS), e-services

1 Introduction

Nowadays, gadgets are ruling the world. Many people cannot live even a day without their mobile devices. We use these mobile devices for everything like to find information, to stay connected with our friends and families, find various locations, play games and many other things. But very often we come to the point when we would like to have an application for particular situation or for a certain need. Hence, we are building this application for one such need .The need for this application is that will keep the users and the service providers connected. For this reason we are developing an application that will satisfy both the groups and will ultimately help them both. Of course there are several sources on the web which might offer nearly similar services, one good example of such *app* is the *helpr app* which provides a few of the facilities. But our idea is to unite the end user and service providers. There is also a separate form available where users can share their feedback as well as the ratings for the services that they have received. Therefore, such kind of an application is needed in today's developing world and it can be very well used among the android users.

2 Existing System

The existing system uses the Manual System to find the information. Present systems that are used do not provide all the required information. They store data in the table format like excel sheet. That makes the data compact and impossible to search for, in case of large amount of data. For this purpose we have built a new system that will have a centralized database based on the query of the user or the service category chosen. This will remove the data complexity and data will be user friendly. In the existing system the user has to use various apps to find out the details of the various services that are available and then book for the service. This often requires a lot of time and effort. Each *app* provides only for a particular type of service ,some of these apps do not use the GPS service which is available on all android devices for the purpose of identifying a location instead they seek for the users themselves to provide for the location. One example of the existing system is the *helpr app* which provides a few of the facilities. A customer may not get the desired information from these apps or the documents that are available may not have the right information that is required and the user may be misguided with the wrong information. It is also quite tedious for a user to search for a particular service manually through the documents that are available.

2.1 Problems in the Existing System

- The most significant drawback is that the system is manual. There are errors due to carelessness or oversight that may result in loss of the data and to the organization.
- Since the system is manual it is more time consuming. For the users, time is very important factor.
- The information or data is stored in the form of files. This makes it difficult to search for information in files manually and to add a new record or modify the file, if the searched record is not available.
- Information is not maintained globally.
- Furthermore, manual evaluation process is more prone to errors.

3. PROPOSED SYSTEM

The proposed system is an android based application and maintains a centralized repository of all related information. The system allows one to easily access the relevant information and make necessary booking arrangements with the help of the app. Users can decide about the services they want to have and make bookings online for the service. Once the user chooses a service type e.g. (electrical, cleaning etc), the system then allows the user to select the date and time for the service to be executed at the specified location .The location of the user is got through the GPS service available through the users android device. All this data is stored onto the database and the user is given a receipt number for his/her booking.

This data is stored onto the database for the purpose of communication between the users and the service providers. This application is mainly used for providing services to the users based on the location of the user. Through this *app* users can know which the various services that are available are, identify the best

service, and visualize the feedback on that particular service, co-ordinate and book for the available service. The *app* serves the functionality of providing services to the registered users of a particular locality; new users are allowed to register onto the application. Once the user logins he/she is allowed to choose the service, depending on the service type that is selected and a list of service providers will be made available on the user's screen.

The features of the *app* are:
1. The *app* is user friendly and has control over various other applications.
2. The data management is easy, simple and retrievable.
3. The system is highly secured and authenticated.
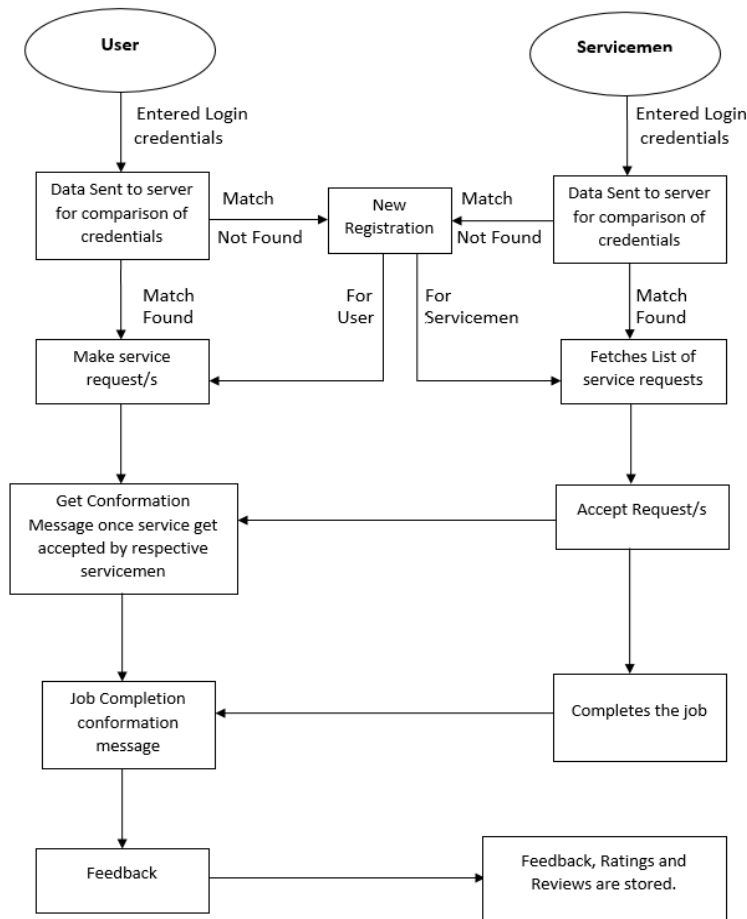4. The user can themselves check and book for the services.

Figure 1: Block diagram of proposed system

4. Feasibility Study

"Feasibility Study is the evaluation of the system proposed regarding its workability, impact on the organization, ability to meet user needs, and effective use of resources."

4.1 Technical Feasibility

- Our software can be implemented with the existing technical resources.
- Required Hardware and software tools are easily available.
- Hence our software is *Technically Feasible*.

4.2 Economic Feasibility

This proposed system is financially feasible, because of the following reasons:

- Installation of the system can be made with low cost.
- The hardware requirements for our software are minimum and can be easily affordable, making it *Economically Feasible*.

4.3 Operational Feasibility

The operational feasibility of our software is

- Proposed system is user friendly with good GUI (Graphical User Interface)
- Information updating is done easily by the administrator.
- As in present day situation technology is known for making changes and robustness in performing tasks.

4.4 Behavioral Feasibility

People are resistant to change and computers have been known to facilitate change. An estimate should be made of how strong a reaction the user staff is likely to have towards the development of computerized system.

- User friendly.
- Knowledge of programming is required.
- This will save lot of time and reduce the workload.

Hence our software is *behaviorally feasible* in the organization.

4.5 Schedule feasibility:

The time schedule required for the development of the project is very important since more development time effects machine time, costs and delay time in the development of other systems.
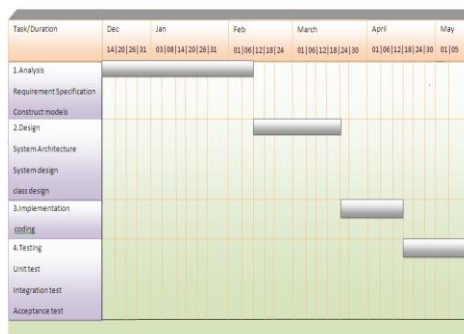

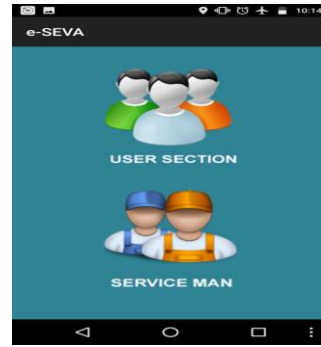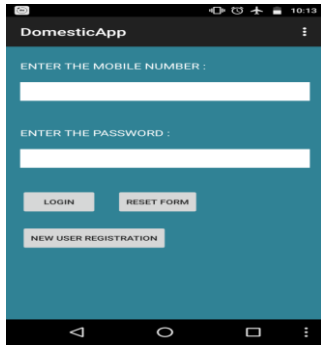Figure 2: Schedule feasibility

5. Results and Performance Analysis.
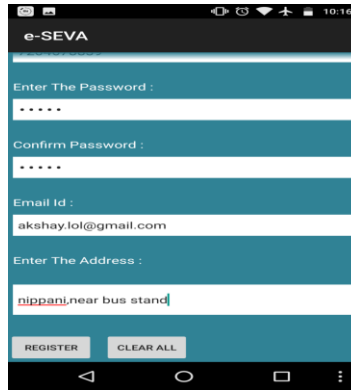
Figure 2: Login page for User and Serviceman
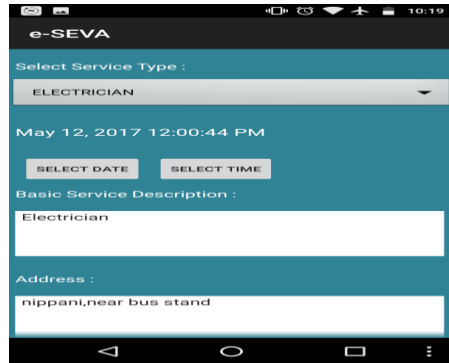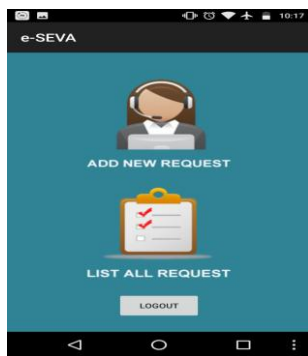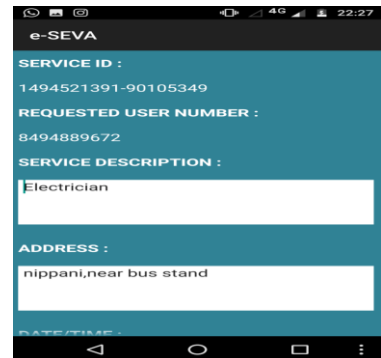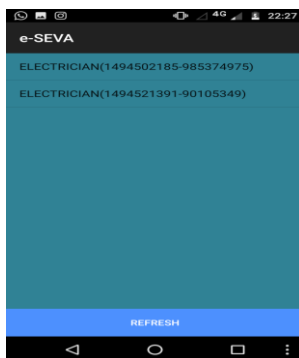

Figure 3: Registration Page

Figure 4: Dashboard

Figure 5: Requested Service Page

phpMyAdmin

(Recent tables) ...

- a3pixqyc_aaadomestic
- information_schema
- test

Server: localhost » Database: a3pixqyc_aaadomestic » Table: service_request

Browse | Structure | SQL | Search | Insert | Export | Import | Operations | Triggers

☐	Edit Copy Delete	5	1494523067-2035274281	CARPENTER	9036442513	window repair	Git udyambagh belgavi	May 12, 2017 12:30:57 PM	0
☐	Edit Copy Delete	6	1494523378-1382196408	ELECTRICIAN	7204678839	Electrician	R.C Nagar,belgaum	May 12, 2017 12:00:01 PM	0
☐	Edit Copy Delete	7	1494523631-1183465828	ELECTRICIAN	8494889672	repairing fan	chennma nagar belgaum	11-May-2017 9:56:44 pm	0
☐	Edit Copy Delete	8	1494565238-347208260	ELECTRICIAN	7026389654	xyz	rpd	13-May-2017 1:29:21 AM	7975284170
☐	Edit Copy Delete	9	1494565870-1145308317	ELECTRICIAN	8050902804	meter reading problem	git	13-May-2017 9:25:09 AM	0

↑ ☐ Check All   *With selected:* 🖉 Change ⊖ Delete 📄 Export

Show : Start row: 0   Number of rows: 30   Headers every 100   rows

Query results operations

🖨 Print view 🖨 Print view (with full texts) 📄 Export 📊 Display chart Create view

Figure 6: Database Server

CONCLUSION

The proposed system facilitates user with domestic services like electrician, plumbing using a android application. This helps users to find domestic services very easily when they shift to new place. The experimentations and results prove that the system is easily implementable in real time. This system can also be extended by inducing custom search of place according to user requirements.

REFERENCES

1. Android Language Breakdown. Open Hub. *March 3, 2017*. Retrieved March 11, 2017.

2. *Morrill, Dan (September 23, 2008).* Announcing the Android 1.0 SDK, release 1. *Android Developers Blog.* Google. Retrieved March 11, 2017.

3. Licenses. *Android Source.* Google. Retrieved March 11, 2017.
4. Raffles, Thomas E.: History of Java. Oxford University Press, 1965, p. 2.
5. Hatley, R., Schiller, J., Lucas, A., Martin-Schiller, B., (1984). "Mapping cultural regions of Java" in: Other Javas away from the kraton. pp. 1–32.
6. Introduction: What can PHP do? *PHP Manual*. Retrieved 2009-03-05.
7. Embedding PHP in HTML *O'Reilly. 2001-05-03*. Retrieved 2008-02-25.

8. *Jackson, Joab (2014-07-31).* PHP gets a formal specification, at last. *ITworld.* IDG.

9. *Lerdorf, Rasmus (2012-07-20).* I wonder why people keep writing that PHP was ever written in Perl. It never was. #php. *Twitter*. Retrieved 2014-09-04.

10. MySQL 5.7 Release Notes. *mysql.com*. Retrieved 6 September 2016.