MeToTeach: A Mobile Application Based Self-Employment System

Niharika.K[1] | Lakshmi Tulasi.K[2] | Swapna.Y[3] | B.Lavanya[4]

[1,2,3,4]Department of IT, Andhra Loyola Institute of Engineering & Technology, Vijayawada, Andhra Pradesh, India.

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ABSTRACT

This paper introduces an employment system that can be deployed in an environment such as self-employment search for both part-time and full-time employees. The problem that was presently faced by the parents is to search for a tutor to their children and the other problem that was faced by any organization is to search for a faculty in an emergency situation. The manual solution to this problem is monetizing through advertisement in newspapers and hand-outs. The online solution named as MeToTeach ,build an opensource and network protocols to implement the employment system that can successfully advertise each users registered information with free of cost. This system is classified in to two job role,they are graduates searching for a full-time job and students searching for a part-time job. It takes the advantage of advertising the details like full name, location, free time, contact phone number and description about area of interests. This paper provides a platform for the graduates and the pursuing students to employ themselves in the nearest location. Users firstly advertise themselves with giving appropriate information about their area of interests. All the advertisements that are posted by different users are displayed on the home page of the application. These advertisements are separated through their registered locations. The viewers while searching for the nearest tutor will be seeking through the location point. The viewer will proceed with profiles matched to their requirement through the contact details that are provided in the profile. The solution is flexible to the users as they can choose their own tutors without manual help.

I. INTRODUCTION

The emergency of mobile communication and device technology has made human life more comfortable and smoother. Work that was tedious and time consuming in the past is now being done with relative ease by means of smartphones equipped with intelligent and efficient applications. People are becoming more dependent on smartphones in daily life. With the view of becoming digital in every aspect,Bangladesh mobile phone market trend also witnessed this uprising of smartphone purchase. The reason

behind it is quite simple: you can get your job done effectively when you own a smartphone.

Smartphones offer its users a wide variety of privileges starting from communication to official chores. Smartphones connect us with high speed Internet with the help of 3G/4G mobile networks, and for this, the E-commerce applications have been increasing day by day. To this vast change in the people's daily life, every small manual work is replaced with some other E-commerce application. This project takes an advantage of solving a problem like parents searching for a tutor and an educational organizations searching for an

emergency recruitment of faculty. The manual solution to this problem is monetizing through advertising in newspapers,brochures and hand-outs.

The proposed application has been designed in such a way that it meets the user's demands. In the realm of usability and self-employment, a system that can provide the users real time or online advertisements can be very useful. Users need not spend a lot of money to advertise the needs in hand-outs and newspapers. Rather a user can advertise himself through online whenever he needs too. Keeping such requirement in mind, the on-demand self-employment feature of MeToTeach has been designed so that it can separate itself from other available mobile applications which can found on mobile application stores. The user simply needs to register his own description to advertise his post with the native location. The other feature of the application is open source and open network architecture.

This paper has been organized for the understanding and enlightenment of the challenges and hurdles that are faced during the employing our self on a daily basis. To show a platform with a mobile application it is designed to make it easier just under the matter of finger tips. Section II of the paper discusses about the background of the problem being addressed. Section III is all about existing solutions of such systems or applications that are available for users. Section IV gives the insight of the proposed solution to develop a self-employment system. Section V deals with the implantation phase i.e., how the system has been developed, what is the overall work-flow of the application, limitations of the implementation and so on. Section VI is all about the impact of such a self-employment system solution to different sectors of daily life. After Section VI, conclusionshave been drawn suggesting further improvements of this system.

II. BACKGROUND

Google Play Store has enabled users to choose from a wide variety of applications. An application that can act asa client that can advertise their own profile to the other users so that other user requirements may match to the profiles available. These kind of applications have unlimited scope where it can be deployed to fulfill its potential. The sectors in which this app may imply to flexibility, usability and education sector, real time graduate and students requirements, needs sharing platforms etc. The usage of such kind of application is infinite.

The need of such applications has led to the competition of developing Android apps that can serve the purpose of real time online advertisement sharing. A commercial solution for advertising things, properties and other valuables as a second hand product is given by OLX. On the contrary, when the application has given solution to a problem of selling and buying things, then why not an application solve a problem of employing a student or graduate.

Developing an application that neither has server side unnecessary resource consumption nor the cost of server usage per month is a big hurdle to overcome. Since users do not like to pay hidden charges or extra cost after installing a free application on their Android device, an application that can tick all those boxes has become the burning question. But advertising in a newspaper or a hand-out costs more than the cost of free application. Besides it reduces the effort of man power. When a student needs to do any part-time job like tutor, he needs a third person to search for a job and when a graduate searches for a full-time, he needs a platform to search for a job.This project addresses the above mentioned problems and highlights on the development of an application that gives its user an open source platform to advertise.
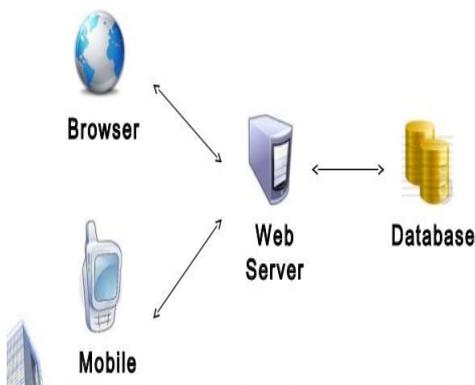
III. RELATED WORK

There are several self-employment applications that can be obtained free of cost form the Google Play Store. Using such applications, we can search for a job but most often these applications are for searching for the companies or online tuition points. Now-a-days some Android based surveillance systems are being developed. Most of the applications use technology in which we have to be logged into both premises device and monitoring devices. Basic implementation of such applications were done in the same local area networks or LAN through Wi-Fi connectivity.

A recent work has been done building a social crime reporting via contact details i.e., OLX had faced a problem that contact details like phone number of girls is misused by strangers. They have called the women and abused in a wrong way. Although the impact of crime reporting is profound, it is given with a solution of chat availability before giving the contact number. This kind of application is basically free from overhead server costs, server side maintenance etc. Therefore, an application

that facilitates user friendly platform to advertise their profile with feasibility.

IV.   PROPOSED SOLUTION

Keeping all the requirements of the users in mind, for building a robust self-employment system some important features must be added to the application. As it is an android application, everyone has their own idea of implementing it with different framework like android studio, PhoneGap, Ionic etc.., and the databases may vary like SQL,NoSQLetc..,But the Architecture remains same.

V.   IMPLEMENTATION

The total work-flow of this self-employment app has been given as proposed system. It describes the total work process of a user to create a profile with details for the viewer's requirements. The users at first need to login to their Google account and then give permission to the app to access the application. After that users need to specify the parameters of the advertise form. So that the profile could be ready for the viewer to check their requirements. The viewer checks the requirements starting with the nearest location and then moving to further details like designation etc..,

Limitations:

The limitations of this solution for surveillance system are the following.

- Since*MeToTeach* is proposed and meant to be a self-employment application that has to be done is a local employment which is within the nearest locality.
- Since *MeToTeach*uses Google API, it needs to access the user's Google account. So if a user does not use Google accounts, he or she cannot be benefited from this project.
- As user gives their contact details, there is a problem with the security issues.

Economic Impact:

This solution is a free of cost, and the sectors in which this application can be deployed will save a lot of money. If one can use this application in accordance with the need, this application will help saving a lot of money. This application is easy to maintain and if one of the components of the native Android device is damagedonecaneasilyreplaceitwithavailablehardw arefrom local markets. An Android device has become really cheap. As a result, there is no hidden charges or additional fees for the users for ensuring the back-end servers.

VI. CONCLUSION

The application, *MeToTeach* was developed for the sole purpose of becoming a self-employment solution to the users. A user can set their oppurtunity from Android devices effortlessly and globally. *MeToTeach* has been introduced and took advantages of open source APIs and free services offered in the Internet. The introduced app facilitates on-demand profiles triggered by SMS. This unique feature help saving significant amount of energy and networking resources.

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