iJRASET
International Journal For Research in Applied Science and Engineering Technology



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 8 **Issue:** IX **Month of publication:** September 2020

DOI: https://doi.org/10.22214/ijraset.2020.31523

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International Journal for Research in Applied Science & Engineering Technology (IJRASET)
ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429
Volume 8 Issue IX Sep 2020- Available at www.ijraset.com

Project Report on "My Helper"

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Abstract: ***In this project we propose an adaptive application through which one can easily access data if the primary device is misplaced or kept at home by using this application rather online or offline.***
When accessing data through SMS, only passcode is needed and when accessing data through internet, double verification is needed for the purpose of gaining high security in data transferring.
Thus, this application provides more flexibility and ease data transferring over any type of network.
Keyword: Remote Access, Mobile Application, Primary & Secondary device, SMS, Flexible Data Transfer.

I. INTRODUCTION

Before this technique was developed, every data transfer need internet or huge storage space or short range of offline data transferring, etc. Even data carrying hardware were pen drive, mobile device, sd card, cd, need to carry carefully. If one fail to carry his/her storage device then the situation will be problematic. Unlike the other data transferring method such as Bluetooth, Wi-Fi, internet, manually sharing data would be risky and may spread virus too.

Using such approach, we will be able to reduce time, space complexity and utilize web accessing and storing data on web. According to American journal of international engineering, hardware which get corrupted due to virus spread of data have e-waste of 95-97% of metal, glass, plastic and some hazardous chemical.

In this project, we propose a personalized accessing and transferring technique based on customized application through "online and offline mode", where user will remotely access data or manipulate system settings from secondary device to primary device just by sending an offline SMS (Short Messaging Service) or by using an online application. Using this application, one can ensure that we are safe from virus because data can only be transferable through SMS or Online Application.

We are living in a world where everything is happening at the speed of a Formula-1 car in a race track. Keeping tick of essentials in this fast-placed life sometimes turns out to be quite demanding. Therein comes the use of 'MY HELPER'.

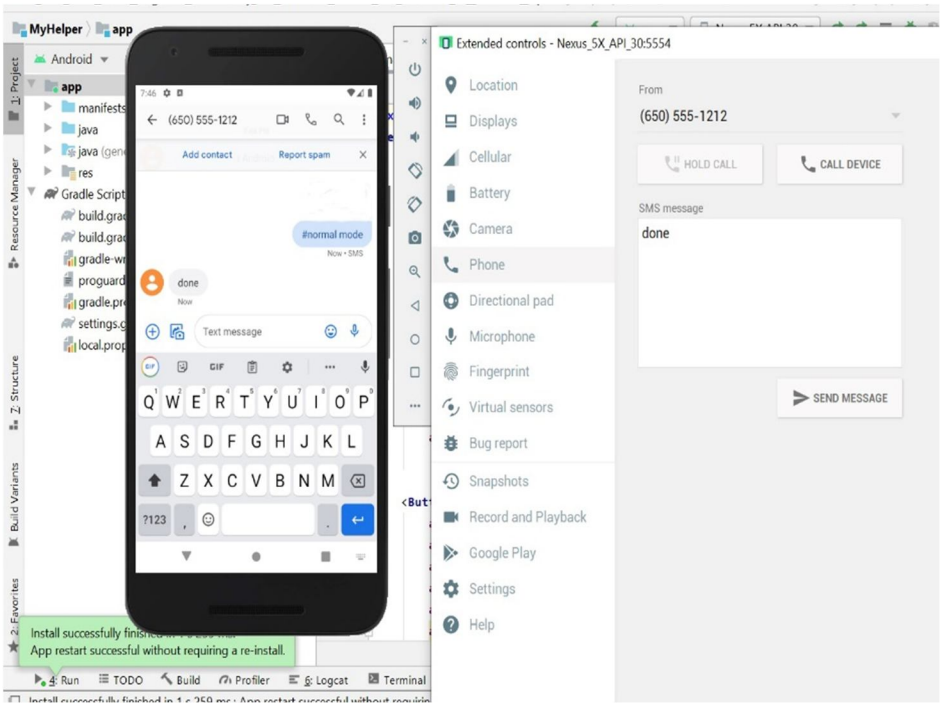


Fig: a) Appearance of application.

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A. *Design Idea*

Android Studio provides the fastest tools for building apps on every type of android device. It is the official integrated development environment for Google's Android Operating System, built on JetBrains. It was developed by Google and JetBrains written in JAVA, Kotline, C++. It is freeware licenced application used all around world.

Android Studio supports all the same programming languages of IntelliJ e.g. JAVA, C++, and more with extensions such as Go and Android Studio 3.0 or later supports Kotlin and all JAVA 7 language features and subsets of JAVA 8 language features that vary by platform version.

Android Smart phones combines features of a personal computer operating system with other features usually including a touchscreen, cellular, Bluetooth, Wi-Fi, GPS, and much more which makes it easier to use and is the best alternative for desktop computers and laptops.

II. LITERATURE REVIEW

R. Saraswati, K. Shanti, H. Rashika, R.M. Ponmani, Ms. S. Gowthami used A mobile phone to send and receive text message, with wide area, high reliability, high popularity, easy development, low expenditure and other characteristics using Short message service (SMS) technology. Using GSM module or network platform of short message, messages can be sent and received between the computer and the mobile terminal. To develop this application which works without internet we can access our android phone remotely. The remote mobile phone data access system can also be programmed to send specific SMS to predetermined number if any event. If your mobile phone is not available at the moment and you need to call a person urgently whose contact number is not available at that instant and also their email-id and unread SMS and missed calls from your phone.

Ugendra Bobba, Mallikharjuna Kurapati, Ramakrishna Pamarthi : At the time we set our mobile phones in silent mode, we may misplace it somewhere nearby and cannot find the mobile phone by ringing to it. It has happened to all of us. To solve this real world problem, we develop an application called Remote Ringer. Remote Ringer helps us to change mobile phone mode from silent to ringing mode. Once your phone is in ringing mode, you can ring it from any other mobile phones.

A. *Proposed Work*

If you missed your phone at home being in office or some workplace and you are in need of some data or contact in your mobile phone then it is impossible without any application. Even if you misplace your mobile phone somewhere at home or any workplace and the phone is in silence then it is too impossible to find it.

Your Phone is in silent mode and you missed it somewhere nearby. You search all around your house for your smart phone only give up and resort to whipping out the old and busted landline phone and Call your number. But you didn't find your phone because it is in silent mode. And when you missed your phone at home and need some of your contacts immediately then it will be a difficult moment to arrange number. Even if you need any file which was saved in mobile phone then it is impossible to share without any media.

B. *Proposed Approach*

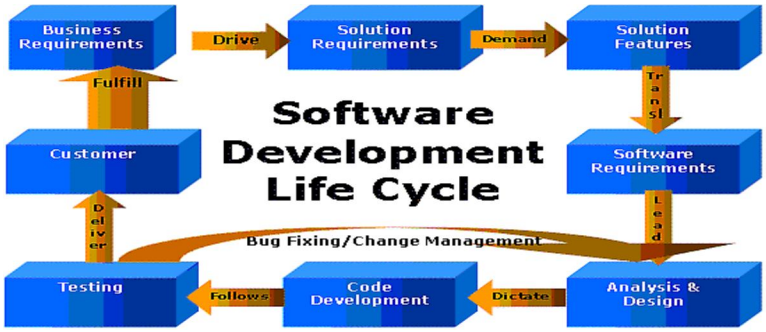


Fig: Software Development Life Cycle

In this proposed work, the application will have to allow running in background in the user mobile. The user then has to set pass code for SMS operation (in case the user want to access the mobile through internet then the user have to set username and pass code) and enter few contact numbers through which he/she will access the device remotely. At the user end, the contact number which was feed in the application now can access the phone by installing the application then providing pass code. The application will then run a checksum which will check that the number which sent a request is the same number which was feed in the system earlier. The flow chart below (figure 5.2.2 and figure 5.2.3) shows the working algorithm of the application.

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ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429
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III. WORKING

The working of My Helper is as follows:

A. *If Accessing using SMS*

1) The user has to install My Helper in his android phone.
2) After installing, User has to set Username and Pass code.
3) After setting Login Credentials, User has to set mobile numbers by which he could access remotely.
4) Now, the user has to send Login Credentials through SMS from saved mobile number only.
5) After access granting, now the user can ask for any mobile number saved in his phone which is he forgot to carry.

B. *If Accessing using Internet*

1) In this method, both the mobile phones have to connect through Internet.
2) From the receiving end, the user has to browse a link through which he/she can access using Login credentials.
3) After successfully Login, user now can easily share huge data files.

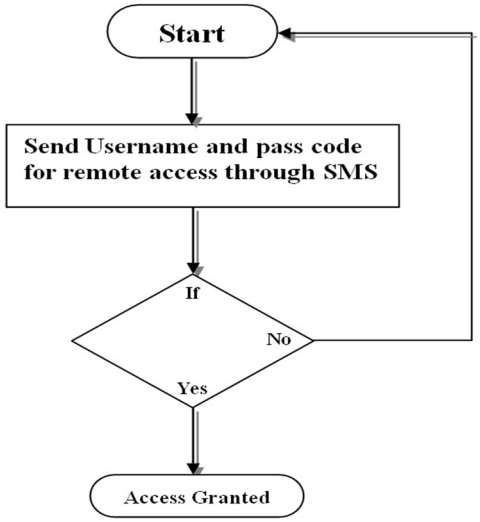


Fig: Algorithm of Remote Accessing using SMS

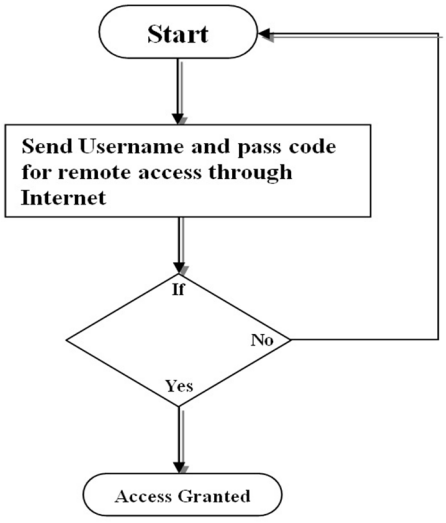


Fig: Algorithm of Remote Accessing using Internet

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IV. CONCLUSION

We proposed an effective and secured method of remotely mobile data manipulating/accessing. As if the user hardly tends to forget his phone anywhere, this software helps him to find his/her phone back either by GPS tracking or by changing the sound profile from silent to general. General use of this software is that, it can also be used to transfer data remotely. The data can either be contact number, any file, etc. Its first advantage is that we can operate some features in offline mode such as remotely commanding to share some contact number and the user mobile will send it automatically as the software will work in background. Other features such as call log sharing, message log sharing, file sharing and manipulating settings at some extinct is possible only by online mode. As we can make changes in system settings, higher protection is used through login credentials. Though, sharing contact number also needs authentication, we have assign offline login too.

V. FUTURE SCOPE

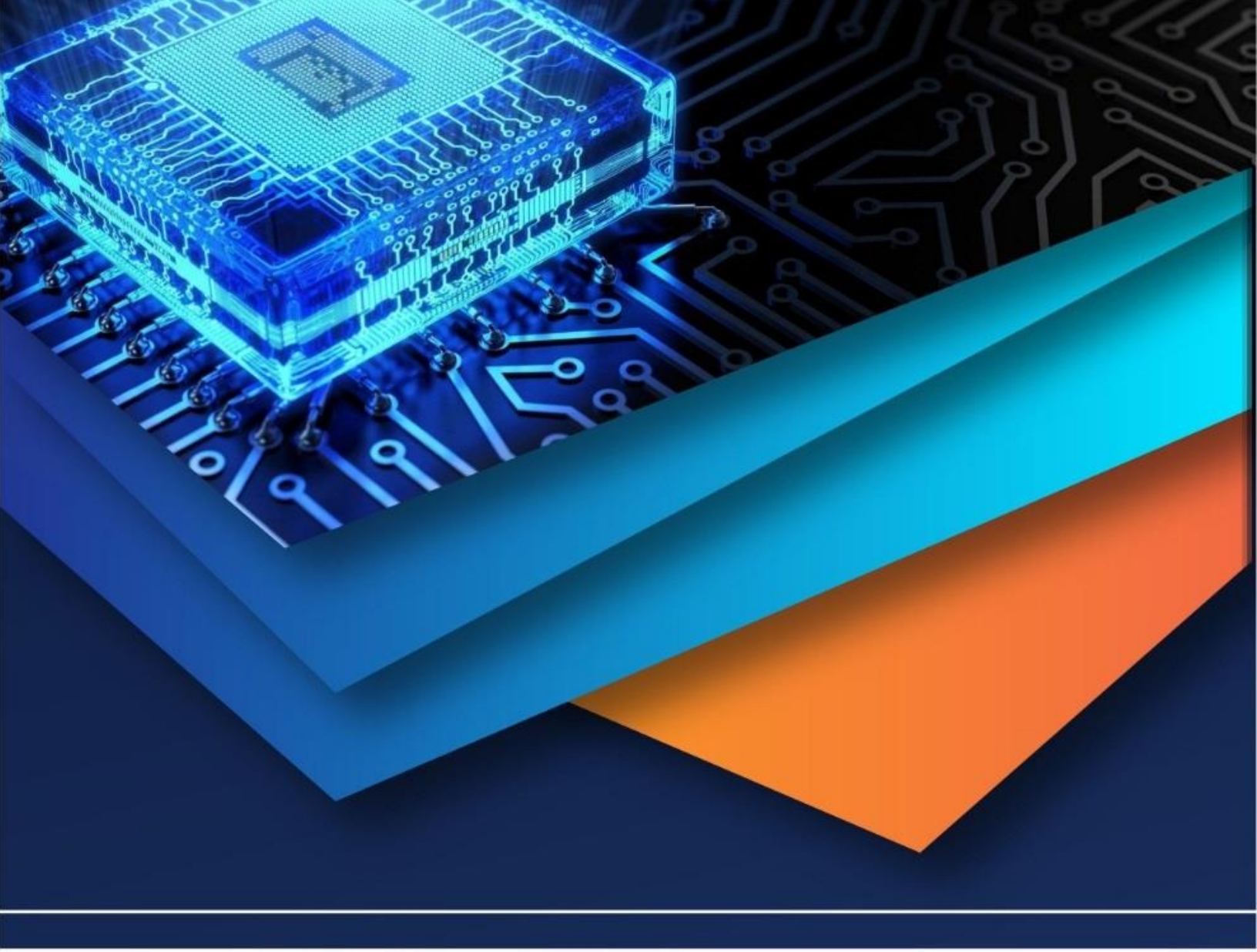
The following can be done to the algorithm as a future scope:

A. If someone send message to user mobile to change the sound profile, it will then automatically do it.
B. Advancing the authentication process by changing the login methods to OTP (One Time Password) can also be done.
C. More number of verification numbers can be saved / entered in user mobile and server for safety of user data.
D. Data rate can be increase.
E. Also, the user can also login from website.
F. For ease of accessing offline process should be preferred and will be easy.

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