

## International Journal of Research

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## An Advanced Mechanism for Phone Mode Conversion Through SMS

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#### Abstract:

Sometimes we set our smart phones in silent mode; we may misplace it somewhere nearby and cannot find the mobile phone by ringing to it. It happens to all of us. Finding a phone in silent mode can be exceptionally tricky to find. If you're in the habit of losing a silent cell phone, you may wish to invest in a phone sensor, also known as a phone detector. The user has to follow tedious procedures to find his phone and ultimately user may not find his phone. This procedure is time consuming too. previous existing system Mode change is done manually. To solve this real world problem, we have developed an application called Phone Mode Conversion through SMS. It is an android platform based application that runs in the android mobile or in the android emulator at the development time.

#### Keywords

Phone Mode, Phone Detector, Conversion through SMS, message, human interference

#### 1. Introduction

In the present scenario of our daily life the usage of cell phone has increased a lot. It's hard to find our smart phone when it is in silent mode. The user has to follow unexciting procedures to find his phone and ultimately user may not find his phone. This is the major problem faced by mobile users from all walks of life. So we have concentrated on this issue and proposed a solution to this problem in the form of an android application.

#### 2. Literature Survey

Android is a mobile OS developed by Google based on the Linux kernel and designed primarily for touch

mobile screen devices such as smart phones and tablets. Google purchased android in 2005, Android was uncovered in 2007, launching Open Handset Alliance consortium of hardware, software, telecommunication and companies devoted to advancing open standards for mobile devices. Originating from the first commercial Android device in September 2008, the Android OS(operating system) has undergone numerous releases, the latest version being 8.0 "Oreo", released in August 2017. Android applications can be downloaded from the Google Play store, which features over 2.7 million apps as of February 2017. Android is the top-selling OS on tablets since 2013, and runs on the huge bulk of smart phones. As of May 2017, Android has 2 billion monthly active users, and it has the largest installed base of any OS.

This study concentrates on technologies integrated in development of Android application and how they apply to the research problem. In the official Android website description of the platform, "Android is a software stack for mobile devices that includes an operating system, middleware and key applications". Android provides the "variety of applications including an email client, SMS program, calendar, maps, browser, contacts, and others", while additional applications can be downloaded through Google Play service (Bishop, 2012).

Google (n.d.) claims that "Android powers millions of phones, tablets and other devices". Phones and tablets are mobile devices that can have Android applications installed on them. These applications are written in Java programming

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language and they are called mobile device applications or apps.

3. Existing System

Finding a phone in silent mode can be exceptionally tricky to find. If you're in the manner of losing a silent mobile phone, you may wish to invest in a phone sensor, also known as a phone detector. These are tools that, when placed near a cell phone, will actually pick up the call signal and make sounds to indicate that the phone is somewhere within propinquity. If the phone is lost, all you need to do is have someone call you as you walk around with the sensor until the device begins to indicate that a call signal is nearby. When you hear the signal, you then have a basic idea of where to start looking for your cell phone.

Additionally, in the previous projects the message sent will be delivered as a normal message to the other mobile. There isn't any existing application developed to change the modes of the mobile automatically by receiving a predefined message. If we want to change the mode we have to change it manually, this is the main disadvantage.

#### DRAWBACKS OF EXISTING SYSTEM:

- 1. Requires human interference
- 2. Time consuming
- 3. Difficult in searching the mobile when misplaced

#### 3.1 PROBLEM STATEMENT:

Suppose the phone is on silent or vibrate mode then it is very difficult to locate. The existing system has no way to find out the silent profile mobile with an SMS. It has required manual interface repeatedly. Hence the need arises for a phone which smartly switches the profile to silent without human intervention. To overcome the problem of existing

system we have developed a system Phone Mode Conversion through SMS.

#### 4. PROPOSED SYSTEM:

It happens to all of us - 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. Most of the time your phone is either tucked in your pants pocket that you have thrown in the hamper to be washed, or hiding in the cushions of your couch.

This method works probably 90% of the time. But what about that 10% of the time when your phone is either in silent or vibrate mode? Our Phone Mode Conversion through SMS android application can force your phone into normal mode by receiving a SMS text from an approved number.

Phone Mode Conversion through SMS works in three easy steps:

- Password Settings which helps the user to enter Password that can be used to open the application.
- Define the authorized contact number that can force your phone into normal mode
- Define your secret Password that will be sent in the text message.

As long as the text comes from an authorized number, anybody can send a text to your phone to force it into normal. So to the people who live alone and don't have another device in the home capable of sending text messages, you can authorize a friend or family member's number to force the change. Then you can Call your number and actually hear it ringing.

The proposed system needs to be configured before use. User can add unlimited contact numbers from which the message can be sent. Also, a secret word can be added that can be sent as SMS to the lost mobile in order to convert the mode to general. It also provides Password protection to prevent unauthorized application changes.

When the user sends the secret code from other phone, the mobile, after receiving that message authenticates it and reacts in converting the modes . Also, an acknowledgement is sent back to the trustworthy number through SMS. If the message is not matched with the secret code, it will be delivered as a normal message.



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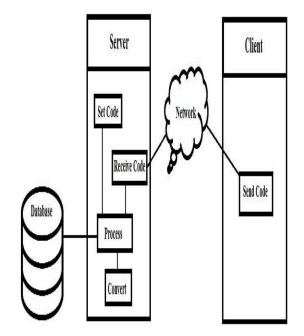


Fig 4.1 System Architecture



Fig 4.2 Mode Conversion from silent to general

#### ADVANTAGES OF PROPOSED SYSTEM:

- 1. No manual interface is required
- 2. Time saving process
- 3. Password protection to prevent unauthorized application changes
- 4. Predefined message can be sent from any mobile



#### 5. Results:



Figure 1: User Login Screen

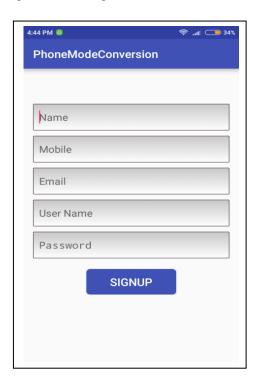


Figure 2: User Registration Screen



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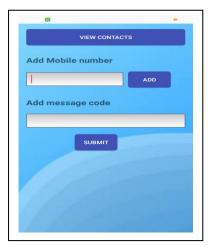


Figure 3:Home Page Screen, Add Mobile Number



Figure 4:View Contacts

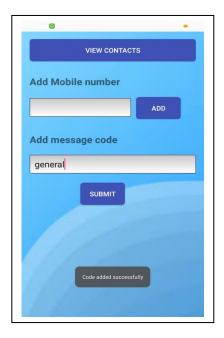


Figure 5: Code Added Successfully

#### 6. Conclusion:

Phone Mode Conversion Through SMS is a unique and efficient application, which is used to find the misplaced android phone. All the features work on SMS basis. Therefore, incoming SMS format plays a vital role. Our android application running in the cell monitors all the incoming messages. If the SMS is meant for the application, it reads the same and performs the expected task.

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