

# ATMS (Any Time Message and Services): A Smart and Secure Mobile Application

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**Abstract :** In the past few decades demand for ATMS (ANY TIME MESSAGE AND SERVICES): applications have been increased significantly. WhatsApp is a very popular mobile messaging application, which dominates today's mobile communication. Especially the feature of group chats contributes to its success and changes the way people communicate. The group-based communication paradigm is investigated in this work, particularly focusing on the usage of WhatsApp, communication in group chats, and implications on mobile network traffic. Recently, a calling feature was added to the application and no comprehensive digital forensic analysis has been performed with regards to this feature at the time of writing this paper. new calling feature which included the: a) WhatsApp phone numbers, b) WhatsApp server IPs, c) WhatsApp call duration, and d) WhatsApp's call termination. For the security purpose there is on/off button which is similar to Facebook. Which create 4-digit pin code on mobile. Each of your chats has its own security code used to verify that your calls and the messages you send to that chat are end-to-end encrypted. This code can be found in the contact info screen, both as a QR code and a 60-digit numbers.

## I. INTRODUCTION

The perceived high level of usage of social networking applications amongst students of tertiary institutions in Ghana is inevitable. However, little is understood from empirical viewpoint about the intensity, of usage of WhatsApp messenger and its impact on the academic performance of students in tertiary institutions. This study seeks to empirically identify the impact of social network (WhatsApp messenger) on the performance of tertiary students in Ghana from the perspective of the students. To achieve this, 50 students from five tertiary institutions were interviewed and 500 questionnaires were administered to students from same institutions.

The study revealed that, WhatsApp instead of making communication easier and faster thereby enhancing effective flow of information and idea sharing among students, rather has impacted negatively on the performance of tertiary students in Ghana. The study among other things unveiled the following: whatsapp takes much of students study time , results in procrastination related problems, destroys students' spellings and grammatical construction of sentences, leads to lack of concentration during lectures, results in difficulty in balancing online activities (whatsapp) and academic preparation and distracts students from completing their assignments and adhering to their private studies time table.

### 1.2 Basic Concept :

Nowadays, technology is increasingly used by human being in every field. As people move from one place to another, many wireless technologies are available to remain in contact with others, without regard of the location. The increasing popularity of Smart Phones has drawn the attention of almost everybody. Along with making and receiving calls, users can send and receive messages, access the Internet, digital media, incorporate audio/video recording etc. Smart Phones also contain built-in keyboard, high resolution camera, front side camera for video conferencing, touch screen etc. Different smart phones have different operating systems.

A mobile app, short for mobile application or just app is an application which runs on smart phones, tablet or mobile phones. Apps are pre-installed or downloadable pieces of software that can do almost everything. Apps make mobile more like portable computers having multi core processors, gigabytes of memory and a real operating system. Originally mobile apps are made available for informational purposes that include Gmail, calendar, weather information etc. With increase in technology and user demands, developers started to make apps for other purposes like games, banking, video chats etc. An app can show the data in a similar way as a website, along with other benefits to download the content that can be used offline, in case the Internet is not available. There are many apps available in market today for different Operating Systems i.e. Android, Blackberry and Apple etc., in which Android is having the maximum market share these days. Fig. 1 depicts market share of different operating systems from 2011 to 2014[1].

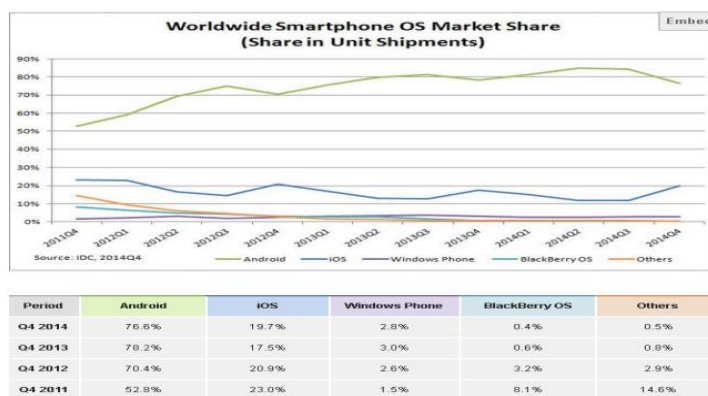


Fig. 1 Market share of different Smartphone operating systems from 2011 to 2014.

Figure I-1: Market Share Of Different Smartphones

## II. LITERATURE REVIEW

The Literature review for this paper was covered on Social Media and students performance. Encouraged by launch of cheaper Smart phones, students have started using Apps for educational purposes. Many Apps are available which provides course material, assignments for practice; text books Etc. for reading. Many Apps provide facility for discussion by chatting instead of going to class for solving their problems. Also students can choose to display information according to their choice. Different famous apps for education include Chemistry Helper, English Helper, Kids numbers, Math Lite, Mathway, High School Physics and Vocabla[3] etc. Many Apps are available to help the students to prepare for competitive Exams. Most Commonly used Apps include UGC NET [4], in which there are modules for Syllabus of UGC-NET exam, Sample of Objective type questions, Reference books and downloading of previous year question papers etc. A similar App named Indian History [5] is available in which chapter wise tutorials are available for students to learn. They can play the quiz and about 20 questions are asked with four options for each question and student has to select one option and number of correct answers will be shown at the end. One more App named Gate 2015 [6], is available having modules for Syllabus, Practice questions, previous question papers, references of subjects, guidelines Etc. The Limitation is that there is need to include all the subjects in a hierarchical manner. A similar App named Net Prep+ [7], is available having modules i.e. timed test, Random Test, Chapter Wise Test. Limitation is that the number of questions are not enough for preparation. Keeping in view the requirement of students and non availability of suitable App, it is highly required to develop an App that helps the student to prepare for competitive exams like UGC Net and GATE. Existing system available for preparation is to study by sitting at one place and there is no facility available for preparation while they are on move. The major problem is that most of the Apps give only details about how to prepare, rather than helping the students to prepare. Numbers of Questions available are also limited. There is no provision to store the results of students, in case, the Apps provides facility of tests. Also the interface of the Existing Apps is not interesting. The limitation of the existing apps is that they are not according to the requirement of students. The idea is to make a general app having questions for all the subjects in a hierarchical manner and to include tutorials for all those subjects to help them learn and then they can test themselves by giving the tests. So an App iquiz is designed and developed.

### Existing System:

The Whatsapp application is a freeware and cross platform messaging and voice over IP service which is owned by Facebook.

The application allows sending of text messages and voice calls over the internet.

Whatsapp uses networks like 2g,3g, 4g to let you text, call, video your family members.

Cost effective than regular texts.

## III. PROPOSED SYSTEM

This app significantly uses like as a WhatsApp communication, recording, pool, hence on start the application firsts checks if the phone' android is on and if it's not the app asks user to give permission to turn it on. After the phone's is checked, if it is the first time the application is being run it will ask the user to enter its name. This name entered by the user will be sent during the Introduction section of messaging where the users are introduced to one another by the name they take up. A file 'udetails.txt' is created recording the user's input. This data is fetched and sent to every phone with which the user communicates. This feature gives a better identification of the user since while scanning for nearby Bluetooth devices it is often very difficult to identify the user.

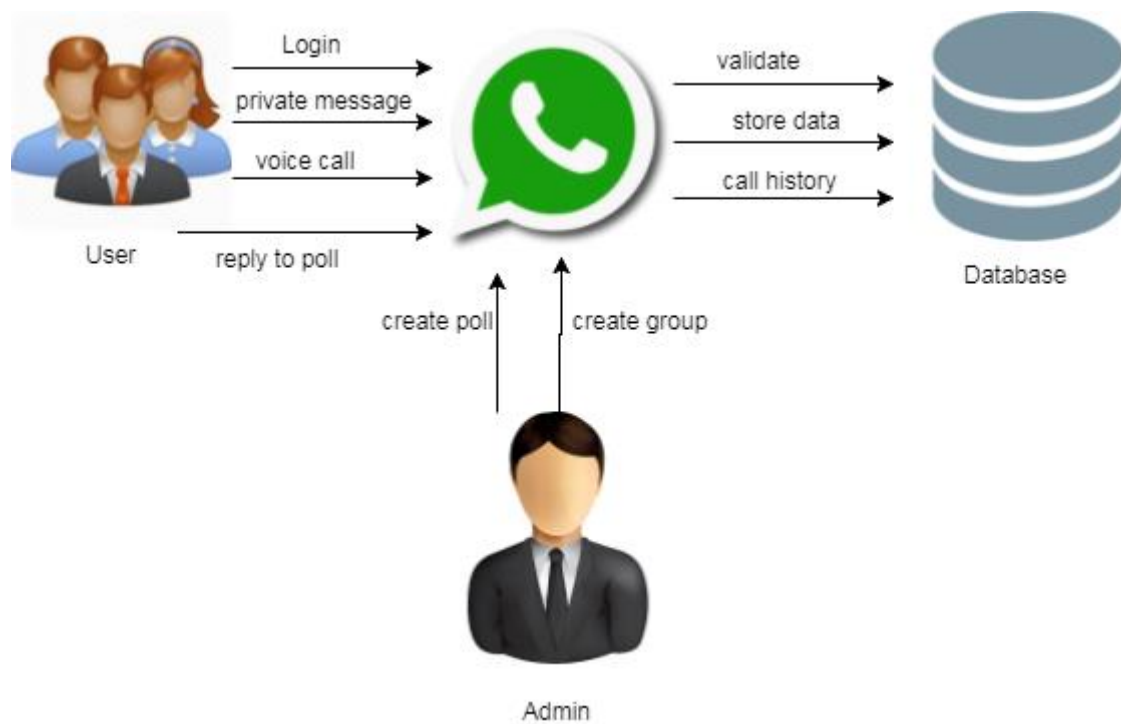


Fig 2. Proposed system

#### IV. CONCLUSION

Smart Phones has changed the life of everyone. Along with other features, an App in Smart Phones allows to do almost everything, from playing games to do business. The development of app described in present paper has given a strong understanding of various challenges associated with design and development of apps. The experience has been quite challenging, motivating as well as satisfying. WhatsApp App can be used by students/user conveniently. More futures may be added from time to time so that App can cope up with requirements of users. In Future scope several other modules like on demands for a particular subject, Job Notification, Downloading of Tutorials, Downloading of Reference books etc. can be added in future for enhancement of features.

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