

**DEVELOPING A CALL AND TEXT MANAGEMENT
SYSTEM ON S60 PHONES**



By

Bacus, Marjoe Cris

De Guzman, Jayrik

Labadia, Regan Paul

SCHOOL OF ARTS AND SCIENCES

ATENEOS DE DAVAO UNIVERSITY

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**DEVELOPING A CALL AND TEXT MANAGEMENT
SYSTEM ON S60 PHONES**

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By

Bacus, Marjoe Cris

De Guzman, Jayrik

Labadia, Regan Paul

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Abstract

The group developed an application with call and text options for symbian series 60 mobile phones. The software is installed on phones allowing users to manage incoming calls and received text messages. Its main functions are the blocking of calls, filtering of text messages with minor features that include autoreply option and call recording. With this, users can block wanted phone numbers that would prevent them from receiving unwanted calls or messages.

Keywords:

Call and Text Management, Call and Text Filtering

Chapter 1 - Introduction

1.1 Background of the Study

Mobile phone technologies are progressing as new functionalities are being developed letting users have instant access to their desired contacts & phone features. Text messaging and voice calls have still been the primary functions used. Security functions are developed for users that receive unwanted calls and text messages. Though some applications for blocking contacts with their calls and messages are made to for mobile phones, these applications only work on specific phone models. This limitation gave us the idea to integrate the functions and develop a call and text management system on s60 phones.

1.2 Technology Application Context

The present study seeks to answer the following general problem:

How to develop a call management system on s60 phones.

Specifically, it seeks to answer the following questions:

- What are the features/components of an effective call and text management system?
- How should the software block or accept contacts, calls and text messages?
- How can filtering be managed and implemented?
- How should the filtered calls and messages be stored for the recipient?
- What other functionalities should be included in this security software?

- What are the technologies required for developing this kind of application?

1.3 Objectives of the Study

The general objective of this research is to develop a software that would manage text messages and incoming calls on mobile phones.

The specific objectives of this research are:

- To be able to create an effective call and text management system
- To identify all the necessary features that will be included on the project
- To research about filtering options on mobile phones
- To know how messaging and call functions work
- To research on technologies to be used on developing this software

1.4 Significance of the Study

The product of this project will have a great impact on Series 60 mobile phone owners, because this would enable users to control/manage incoming SMS and calls. As SMS rates have begun to drop at affordable costs, spam and other forms of SMS scams starts to become a significant problem for many users. Thus this project will help avoid those problems and give users a better peace of mind.

1.5 Scope and Limitations of the Study

The project focuses on managing calls, text messages and contacts options for mobile phones. The application will run on phones with Symbian series 60 operating systems. Other phones with different operating systems may not be guaranteed to use it as intended.

Proposed features include:

- options on filtering calls and text messages
- manage list of blocked contacts
- Set filtering states
- auto-reply option to sender
- Phone call recording (audio recording)

1.6 Glossary/Definition of Terms

- **Operating System(OS)** – interface between hardware applications
- **Symbian OS** – Operating system used for mobile phones
- **Short Message Service (SMS)** - a form of text messaging on mobile phones
- **Platform** - a framework on which applications may be run.
- **Spam** - unsolicited or undesired bulk messages
- **Personal Digital Assistant (PDA)** - is a handheld computer, also known as a palmtop computer
- **Integrated development environment (IDE)** - a software development system needed for coding and compiling.
- **Software Development Kit (SDK)** - a set of development tools that allows a software engineer to create applications
- **User Interface Quartz (UIQ)** - is a software platform based upon Symbian OS.
- **Application Programming Interface (API)** - is an interface in computer science that defines the ways by which an application program may request services from libraries and/or operating systems.
- **C/C++ Development Toolkit (CDT)** - is a set of plug-ins that lets Eclipse manage and build c/c++ programs.