

**INTERNET PROTOCOL (IP) PHONE MONITORING SYSTEM FOR
CAVITE STATE UNIVERSITY**

Undergraduate Thesis
Submitted to the Faculty of the
College of Engineering and Information Technology
Cavite State University
Indang, Cavite

In partial fulfillment
of the requirements for the degree
Bachelor of Science in Computer Science

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April 2014

ABSTRACT

GUERRERO, NEIL JEFFREY F. and MAGDARAOG, ADRIANE L., Internet Protocol (IP) Phone Monitoring System for Cavite State University - Main Campus. Undergraduate Thesis, Bachelor of Science in Computer Science. Cavite State University, Indang, Cavite. April 2014. Adviser: Ms. Charlotte B. Carandang.

The study was conducted to monitor Internet Protocol (IP) phones, calls, usage, and network. The software was enabled to ping the phones and show a graphical representation to provide the output for the administrator to prevent network dilemmas.

Cavite State University Methodology Software Development Model was used in the development of the software. It consists the following phases: Analyse/Planning, Breakdown Priority Project, Design Module, Code Test, Debug, Integration of Sub Procedure and Testing, Integration Existing System, Test/Implementation.

The following specifications of computer were used in developing the software: laptop with 1.8GHz and four logical processors with 2048MB memory running in Windows 7 Ultimate 32bit Operating System and 250GB of hard disk space. Microsoft Visual Basic 2006 for the graphical user interface (GUI), Microsoft Access 2013 for Database .Net for the framework to create applications conveniently, Adobe Photoshop CS6 for the design and logos. The study also used Windows socket library WinSock for connecting to ports.

The software was evaluated based on the given criteria: user friendliness, user interaction, and usability. The participants of the study were the staff of the Department

of Information Technology, Department of Computer and Electronics Engineering and University Computer Center.

As a result with the network of the Department of Information Technology, the software was able to accomplish the objectives targeted by the developers.