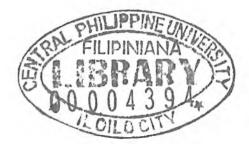# DESIGN AND IMPLEMENTATION OF A CLOUD-BASED STORAGE SYSTEM FOR CENTRAL PHILIPPINE UNIVERSIRY COLLEGE OF COMPUTER STUDIES

A Capstone Project

Presented to

College of Computer Studies

Central Philippine University

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ABSTRACT

The evolution and trend in cloud computing brought significant breakthroughs in the field of computing today. For over the years, the internet served as the gateway of information and the key to the dissemination of information over places separated geographically. The purpose of this research is to design and implement a Cloud-Based Storage System for Central Philippine University, College of Computer Studies. The system provides a secure and organized storage location accessible both on a local and wide area network. Recipients of this system are the students taking up computer subjects administered through the computer laboratories of the campus. The system is a controlled environment capable of management of student files and folders in a secured client-server network. It runs on a Nethserver operating system under Linux. In this study, improvement in file security and file accessibility were obtained through a manageable dashboard that supplements the services and functionality needed by the users as they work with their task in school or anywhere they are. The design and implementation of which results to a more comprehensive protection and reliability on files and folders in order that it can prevent instances such as data loss or unexpected intrusion from unwanted perpetrators. The incremental model of methodology was adapted to the design and construction of this infrastructure since most of the modules contained in the system requires regular updating as the needs for file security and protection increase in terms of its encryption level. As this study proceeds, it needs collaboration and

further analysis of its features so that productivity on the part of the users will be

achieved and utilized.