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Blindscanner Server and Batch Programming Implementation in the Process of Automatically Scan Documents

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Abstract. The purpose of this study is to streamline the time in the process of archiving and scanning documents at government or private offices and to implement batch programming and blind scanner server applications in the scan process automatically. The research method used in this study is to use descriptive analysis methodology, which has two stages, namely the stage of data collection and software development stage. Based on the results of testing for this study, this research can make it easier for government or private offices to search for archives that have been scanned. This research can speed up the process of scanning document archives in government or private offices and integrating all scanning documents on one server. The lack of this research has not been able to convert letter images to ASCII characters that can be recognized by computers. The impact of this study is to provide benefits to government and private offices to accelerate the process of scanning the archives and integrating all scanning documents on one hardware.

1. Introduction

The rapid development of science and technology is very influential in the progress of business in the public and private sectors. They compete to increase professionalism in offices, shops, industries, factories, hotels, insurance, the world of education, and others. In an organization, there are several functions (marketing, finance, HRD, and others) where each has activities and job descriptions that are different from each other. To attain a competitive advantage and remain in the competitive market,

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items judged to be worthy of preserving and keeping in a public place [4]. Based on the definition of archives from several sources, it can be concluded that the archive is a collection of records of data and information collected and can be accessed and used and associated with a particular object.

Computer hardware is all the physical parts of the computer that serves to provide input, process and display output, and used by the system to execute commands that have been programmed[5]. One tool to read or store archives digitally is a scanner. A scanner is a device that reads text and/or illustrations that were printed on papers and translates it into a form that the computer can understand.

The scanner works like a copy machine, but instead of printing out copies. It creates an electronics (digital) images [6]. Blindscanner server is a software that allows users to share scanners with other users on a network. The Blindscanner server supports the command line interface for scanning archives [7]. The command line interface is a text-based interface that is used to operate software and operating system. The command line interface can be called using a batch programming language. Batch or instruction file is a text file that contains several series of commands to be executed by interpreters and uses DOS commands that are compiled and stored in a file. Batch programming languages can be combined with programming languages such as PHP, Visual Basic, C, and others. PHP stands for Hypertext Preprocessor which is a server-side web programming language that is open source[8]. PHP is a simple script programming language used for processing HTML forms on web pages [9]. Based on the definitions of references, PHP is server-side script programming language used for processing HTML forms in web pages that are open source. PHP programming language is server side, which can run on local networks or internet networks. Computer networks have become a very important thing to support various activities [10].

Many archives cause the archiving process to take a long time, archiving systems that use the default scanner application from this factory can hinder the performance of the work unit in question because the archiving process using the default scanner application still uses manual methods, that is by pressing the scan button in the scanner application. Another problem is a large number of government offices and private offices that only have one scanner this causes the archive archiving process to be delayed because users who need a scanner will look for employees/employees who have used a scanner.

This research will implement blind scanner server software and batch programming in the process of automatically scanning the archive so that it can facilitate the archiving of users in government offices and in private offices.

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3.1. Analysis of Scanning Time Using a Factory Scanner Application

The scan time analysis is done to find out the scanning time of each file to be scanned. The following is the scan time of each archive can be seen on Table 1.

Table 1. Time Analysis of Factory Scanner Application Scanning

Archives	Scanning Time Length
1	42 Seconds
5	210 Seconds
10	420 Seconds
20	840 Seconds
50	2100 Seconds

3.2. Proposed System Architecture

A system architecture is a plan or mapping of information needs in a system. Based on Figure 2, BlindScanner Server and Batch Programming Implementation in Archive Scan Process Automatically requires 5 hardware devices including 1 scanner, 1 server computer and 2 client computers.

Figure 2. Proposed System Architecture

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Ang doing research on database and database server for help and support this research using grant Penelitian Terapan (PT) 2019.

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