CHAPTER 1

INTRODUCTION

1.1   Background

The development of technology that continues to increase makes human work easier and faster. Technology is one of the tools that can simplify human work. The role of technology in processing information becomes very helpful, because users can easily get the information they need. Processing data and information quickly and precisely is an important thing that is needed by a company to increase worker productivity, time, and cost to be more effective. Company X (the company where the writer conducts research) is a company engaged in the field of Retail that sells various types of products directly to consumers or to other distributors who have been running for decades. So Company X is already quite well known in the community at large and have a lot of consumers. Therefore, in processing the data of goods that are quite a lot, Company X always conducts Stock Opname activities on a regular basis, without these activities the company cannot ascertain the amount of goods that are in stock. Stock of goods is one of the important factors in businesses engaged in industry. Basically the stock of goods can guarantee the continuity of the company's business. Therefore, Company X should be able to maintain the optimum amount to ensure the smooth operation of the Company X. Obviously Company X needs the correct inventory system to determine the movement of goods appropriately. With the advancement of Company X, the more complex or complex the stock system. Due to the increasing complexity of the problems encountered, Company X need information technology to help the activities of Stock Opname in the warehouse, which aims to ensure the appropriate data source and the correct quantity. If the system inventory in Company X still manually then it is likely to cause errors that can affect the achievement of the targets and targets of Company X.

Data items that are stored in the database of Company X will be linked with the Android-Based Application using Android Studio via a Web Service using PHP programming language. Web Service has a function as a recipient of the request from the application and send a query command to perform the operation in the database and return data to the application in the form of a json or text as needed.

The application that has been produced in this research can update data on incoming and outgoing goods, and display also update information on goods, as well as Stock Opname activities based on location and sub-shelf. This application can also configure the IP address through the menu in the application.

1.2 Problem Formulation

Based on the background of the above problems can be formulated namely:

1. How to make an Android-Based Stock Opname application that can help the processing of information items in Company X

2. Why do we need a Web Service to connect the Application to the Database

3. What Database do we need to make this Application work

1.3 Scope

To avoid widening the problems, the author limit the problems to several parts that are implemented in the system:

1. The application created is an Android-based application with java and xml programming languages, Web services with the PHP programming language.

2. The application created using Android Studio application and Apache web server in XAMPP.

3. The device specification is Android at least version 7 with a resolution of 480 x 800.

4. Processed goods data from the Company X Database (with minor adjustments to maintain company confidentiality).

1.4   Objective

In accordance with the formulation of the problem, as for the goal to be achieved is:

1. Design and create an Android-based Stock Opname Applications in Company X.

2. Facilitate the Stock Opname activities in Company X.

3. Reducing the use of paper in making necessary data changes.