ABSTRACT

This system development project presents the analysis and design of Sales Information Systems for PP Ontime Co., Ltd. It is developed to solve the problems of data redundancy and high operating and maintenance costs. The objectives of this project are to reduce data redundancy, to decrease operating and maintenance costs, as well as to enhance all the work processes.

The study of this project begins with the required definition and analysis of the existing system. Information system analysis and design tools such as context diagrams, data flow diagrams, data dictionaries, and structure charts are used to analyze both the existing and proposed systems. Candidate solution matrix is also used to compare various alternatives in order to come up with the most effective solution. Capital budgeting models such as the payback method, the cost-benefit ration, and the net present value are used to evaluate the proposed system.

It is found out that the new computerized system is implemented using 10Base-T LAN with 1 server, 12 clients, and 2 printers. Software for the proposed system is Windows 2000 Professional, MS Office 2003, and Java2 Standard Edition 1.4.3. Based upon payback method, it shows that the initial investment will pay for itself after 1.4 years. In terms of degree of achievement, the proposed system can process data about 4 times faster than the existing system. To further improve the proposed system, it is recommended that a web-based solution should be developed and implemented. This will allow users and customers accessing the system more easily and faster.