

ABSTRACT

This system development project presents the analysis and design of Video Rental Information System. The project is developed to solve the problems of the current existing information system that is based on the manual system. All data are stored on paper. It requires many administrative staff to maintain the system, and has to face the general problems of manual system, which is error-prone and requires a high maintenance cost. The objective of this project is to replace the manual system with a computerized system. It will reduce the number of administrative staff, solve the problem of manual system and decrease the high maintenance cost.

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 purposed 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 ratio, and the net present value are used to evaluate the purposed system.

It was found out that the new computerized system can be implemented using 10Base-T LAN with 1 server, 5 clients, and 4 printers. Software for the purposed system are Windows 2000, Microsoft Visual Basic 6.0 and Microsoft Access 2000. The payback method shows that the initial investment of the proposed system will pay for itself after 2.8 years. In terms of degree of achievement, the purposed system can process data about 20 times faster than the existing system.

To further improve the purposed system, it is recommended that a Web-based solution should be developed and implemented.