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USA JUGTRIMONGKOL: INFORMATION SYSTEM FOR GOVERNMENT INVENTORY MANAGEMENT: A CASE STUDY OF LAND DEVELOPMENT DEPARTMENT. THESIS ADVISORS: THANAKORN UAN-ON, D. Engr., SUTTINANT NANTTACHIT, M.S. , PIYADA CHITCHUMNONG, M.Sc. 167 p. ISBN 974-663-748-7

Inventory management is an important factor of success or failure in organization. As the amount of inventory increases and as the rate of hardware flow into and out of stock increases, it becomes more and more difficult for a human to remember even approximate inventory balances. An information system is needed to supplement the human mind. This research introduces an information system for government inventory management: a case study of Land Development Department, which reduces access time, increases accuracy and consistent data. The information system was designed and developed using data flow analysis, relational database (Sybase SQL anywhere 5.0 as DBMS) and Object-Oriented programming (Powersoft Powerbuilder Enterprise/32 Version 6.0).

The information system consists of three major processes: 1) Data manipulation: Manipulate relative data; 2) Transaction processing: Support operation management, which are registration, distribution, borrowing, return, repair and disposal; 3) Query and report: Process pre-defined outputs and preplanned printed reports. Since the information system works on client/server network, users are divided into 3 levels: database administrator, operator and general user. Moreover, the information system used in many places, may not support an online system. For this reason, it has an extra function to make the database up to date and consistent.

The information system solves and improves the inefficiency of government inventory management. Furthermore, the information system can develop functions of privileged operation to discard requested documents, applied to Internet/Intranet or OLAP application. In addition the information system can be linked to another relative system such as purchasing, procurement, budget planning and so on for a complete inventory management and control system, which can be applied to DSS or EIS.