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SOMCHAI PICHAIYONGVONGDEE : HOSPITAL DATABASE DEVELOPMENT
SYSTEM ON THE CLIENT / SERVER ENVIRONMENT CASE STUDY ON THE HOSPITAL
FOR TROPICAL DISEASES. THESIS ADVISORS : SUTTINANT NANTACHIT M.S., WORAWIT
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The object of this thesis is to develop a hospital database system using the client/server environment for the Hospital for Tropical Diseases, Faculty of Tropical Medicine, Mahidol University. The client/server architecture is a resource sharing system. The server handles the database management, and the user interface and applications run on the client. Many users are able to access data from database server simultaneously. This hospital database system concentrates on the information of the out patient service system that can be classified into five modules: Registration Module, Out patient department Module, Laboratory Module, Pharmacy Module, and Finance Module. The application was designed to display the different information for each module; moreover, the users can retrieve and manipulate data through the client application, and the database administrator is able to manage the database in the database server.

The database design used in the research is the Relational Database Model with the Database Management System (DBMS) called Microsoft SQL Server. Microsoft Visual Basic was used to develop the user interface. The concept was implemented as a pilot project. In the testing, the pilot project performed quite satisfactorily and was found to be able to support all objectives of this thesis. This system could thus be further developed into a complete hospital database system in the future.