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SYSTEM

SIRIRAT GLINHOM: A DESIGN AND DEVELOPMENT OF THE STUDENT
REGISTRATION AND EVALUATION SYSTEM USING OBJECT-ORIENTED
TECHNOLOGY AND RELATIONAL DATABASE. THESIS ADVISORS:
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The purposes of this research were to design and develop a student registration and evaluation system (SRE), which is a primary information system in academics. Boromarajonani College of Nursing Ratchaburi (BCNR) was selected to be the model of study. The research used the Object-Oriented Software Engineering (OOSE) of Ivar Jacobson, an Actor-Use case driven approach. By this concept, developer and user have the same vision of the system.

The research is divided into 5 parts, Accessing the SRE system, Data Initialization, Registration, Evaluation and Reports. The first part is users and their permission verification. The second part, data initialization into the relational database, uses MS Access 97 as the database management system. The third part, registration, adds and drops courses. The next part evaluation, is for the instructor use. Finally the reports generation creates student and class reports.

The application software was constructed in Visual Basic 6.0, which supports Object-Oriented Programming and Graphic User Interface. The SRE system runs on the standalone by installing the application program and database file on the same PC. Also, it runs on LAN by installing the application program on the client(s) and database file on the server.

Officers, instructors and students did system testing. They concluded that the SRE system was useful in operation of student registration and evaluation. Also, it reduced bottleneck problems of the registrar because each user group could perform tasks and request information by themselves.

The SRE system facilitates registration operation and management and evaluation transactions of the organization. Furthermore, this research will serve as a guideline in future system development with Object-Oriented technology.