

## ABSTRACT

The university's main activities are to give education, services to students and to operate students' information better than other universities. New technology in computerized system can help the university to accomplish the goal.

This project designs and develops databases and programs for the university's activities in the doctoral program. The Doctoral Students Registration System (DSRS) is implemented under the System Development Life Cycle (SDLC). The dataflow diagram is implemented by using Gane and Sarson's method by the Power Designer version 6. The development tool is PowerBuilder version 7 and the database is Sybase on NT platform. The DSRS application can be operated on Windows95/98/ME using LAN connection. This project can be implemented within 6 months of SDLC, starting from system planning to system operation and support. Security is controlled by authorization of username and password of users. The testing are unit testing, integration test, and system testing.

By using the DSRS, the university changed the operation from manual to computerized. This computerized information can make better service to the students and improve the university's operation.