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The objective of this study was development of a Master Thesis and Special Project Management System. This research uses the operation procedures, rules, and specific data of the Technology of Information System Management Department, Faculty of Engineering, Mahidol University as a case study. The reason for this study was development of a system to replace an inconvenient manual system.

This research uses the System Development Life Cycle (SDLC) approach to developing a prototype software for a master thesis and special project management system. Particularly, the research deals with data collection and analysis of the existing system. The Entity-Relationship Model and the Data Flow Diagram are used as the tools for the system analysis and design. The database is designed based on the Relational Model Theory and implemented by Microsoft Access 97 with normalization. Also, Visual Basic for Application (VBA) was used for developing the application software.

The research yielded an information management and information retrieval system. The present system provides users a powerful searching capability such as keyword, title, author and etc. In addition, lecturers and administrators can inquire about examination committees, teacher details and student details. The system also checks user access levels, which can be assigned to users depending on their responsibility in order to prevent data or system modification.

These findings suggest that the system developed in this study can be further improved for developing a system to link and transfer automatically data of students with the graduate registration system. Moreover, user can access and retrieve the basic information about master thesis and special project by using the Internet.