

## ABSTRACT

This system analysis project focuses on developing a computerized information system to support staff allocation system of one engineering consultancy company which is one of the most sizable consulting engineering firms in Thailand.

The study of the project started from finding all the processes related to the staff allocation and focus on the areas for improvements. The study suggested that the manual process should be replaced by a computerized process. The analysis tools such as data flow diagram and entity-relationship diagram are the main techniques used for developing the behavioral model and data model.

Since the existing system are mainly manual, problems arised in many ways; for example, difficulties in information retrieval, difficulties in managing hard-copy, communication problems, lack of security control.

The proposed system is designed to cope with these problems; for example, the time/efforts in acquiring the information will be reduced, the redundant process is eliminated or simplified, the security control techniques is introduced.

Moreover, the proposed system allows immediate access to the information and provides up-to-date information for decision-making, convenience and fast services recording, and ability for searching or reporting the staff allocation information. By employing this proposed system in the company, the efficiency of the staff allocation system used in the company will be improved.