ABSTRACT

The increasing complexity of systems being developed have a significant impact on how computing systems are developed. Users experience the trouble of communicating their requirements to the system developers. Together with this, the continuous change of user requirements contribute to the problems involved in developing systems.

Analysis and design have shown great importance in the development of complex systems. Software engineers are now spending more time on analyzing and designing the system to ensure its acceptability. Several tools and techniques are being implemented but most of these tools are used manually. Additional time spent on representing the system with the use of the conventional pencil and paper contributes to the delay of system development. Automating the tools used in this two stages of the software development life cycle can improve productivity and quality of the systems.

This paper discusses the design and implementation issues involved in the development of *Automated Data Flow Diagram - A DFD*. *A DFD* is a software package that aids system developers in creating and editing data flow diagrams through automation.