# CHAPTER 7

**SYSTEM IMPLEMENTATION**

* 1. IMPLEMENTATION

Implementation is the stage in the project where theoretical design is turned into a working system and is giving confidence on the new system for the user, which it will work efficiently and effectively. It involves careful planning, investigation of the current system and its constraints on implementation, design of methods to achieve the change over, an evaluation, of change over methods. Apart from planning major task of preparing the implementation are training of users. The more complex system being implemented, the more involved system analysis and the design effort required just for implementation.

An implementation co-ordination committee based on policies of individual organization has been appointed. The implementation process begins with preparing a plan for the implementation of the system. According to this plan, the activities are to be carried out, discussion made recording the equipment and resources and the additional equipment has to be acquired to implement the new system.

Implementation is the final and important phase, the most critical stage in achieving a successful new system and in giving the users confidence.

* 1. USER TRAINING

After the system is implemented successfully, training of the user is one of the most important subtasks of the developer. For this purpose user manuals are prepared and handled over to the user to operate the developed system. Thus the users are trained to operate the developed systems successfully in future. In order to put new application system into use, the following activities were taken care of:

* + - Preparation of user and system documentation
    - Conducting user training with demo and hands on
    - Test run for some period to ensure smooth switching over the system.

The users are trained to use the newly developed functions. User manuals describing the procedures for using the functions listed on menu and circulated to all the users. It is confirmed that the system is implemented up to user need and expectations.

* 1. SECURITY
     + Application level security using user id and private key.
     + All messages are kept encrypted in a file.

System implementation is made up of many activities. The six major activities as follows.

* + 1. Coding

Coding Is the process of were by the physical design specifications created by the analysis team turned into working computer code by the programming team.

* + 1. Testing

Once the coding process is begin and proceed in parallel, as each program module can be tested.

* + 1. Installation

Installation is the process storing during which the current system is replaced by the new system. This includes conversion of existing data, software, and documentation and work procedures to those consistent with the new system.

* + 1. Documentation

It is result from the installation process, user guides provides the information of how the user system and its flow.

* + 1. Training and Support

Training plan is a strategy for training user so they quickly learn to the new system. The development of the training plan probably began earlier in the project. The best suited application package to develop the system is java under windows environment.