CHAPTER III

PLANNING

3.1 Research Methodologies

This project will be done using an incremental approach. Below are the steps of the project:

1. Search and Collect references for the algorithm and data structure

    In this phase, gathering all of the information related to the algorithm and data structure for this project.

2. Analyze the problem and make a plan to do the project.

    In this phase, analyzing the problem of this project and start making plan and designing the programs that would be made.

3. Implement the algorithm and data structure into program

    In this phase, start to make the programs based on plan and design from previous phase, create the application using Java programming Language, Huffman Coding as main Algorithm, and Binary Tree as Data structure.

4. Test the application

    In this phase, the program testing was held. Testing about the functionality and the performance of this application.

3.2 Project Management

This project was done in 3 months, which will be divided into several step as below:

Table 3.2.1 Table of Project Management

Activities	April				May				June				July			
	I	I	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Find Reference	■	■	■	■												
Analysis and Planning			■	■												
Design				■	■											
Implementation						■	■	■	■							
Testing									■	■	■					
Presentation												■	■			