

## **CHAPTER 3**

### **RESEARCH METHODOLOGY**

In preparing this project, there are a number of steps that must be taken that aim to make this project well organized. The steps include:

#### **1. Literature Studies**

The first step in preparing this project is to find information regarding the support system that will be made in this project. The information consists of 1 in book form and 4 in journal form. The information first obtained in a book created by Kusri is about the basic concepts of decision making that will be implemented in a support system. The second information obtained from the Bayu Setyaji journal, Pujiono, Ssi, M.kom, contains accuracy and efficiency in decision making must be supported by a data-based and organized system. The third information obtained from the journal Effrida Manalu, Fricles Ariwisanto Sianturi and Mamed Rofendy Manalu which contains the theory of Naive Bayes Algorithms and their use formulas. The fourth information was obtained from the journal Hesham Mohamed Ma AL Laroussi which contained the implementation of the Naive Bayes algorithm in completing several cases and in the journal there was also an accuracy value from the use of the Naive Bayes algorithm. The fifth information was obtained from Jatmika, S.Si, M.kom and Lilis Anggraeni journals which contained opportunities for using Naive Bayes' algorithm in a decision-making system.

#### **2. Preparing The tools**

The second step in this project is to prepare the tools that will be used in compiling this project such as installing a text editor, installing xampp, and looking for templates. The text editor used in compiling this project is ATOM. Xampp is used to activate the apache (web

programming). In searching for templates for projects this is tailored to the concept of the decision support system to be made in this project.

### 3. Creating Web Programming

The third step in this project is programming. Because the system to be created in this project is web-based. In this step there is also the implementation of the Naive Bayes algorithm to produce a final decision in the form of a percentage.

### 4. Test The System

The fourth step in this project is to check the system that has been made whether it runs well and can be used according to the needs of PT Dharma Guna Wibawa as the company used as a place of case study in this project. If there is a eating error in this step it will be fixed until it can be fully used.

### 5. Project Repot

After the four steps above are completed, the last step is reporting this project to the university in the form of written presentations and reporting.

