

## CHAPTER 1

### INTRODUCTION

#### 1.1. Background

Nowadays, vegetarianism is such a new trend that corresponds to many issues. The number of vegetarian is increasing as the growth of many issues of health, environment, ethics, etc. Some of them even create vegetarian organization to campaign and give any information about vegetarianism.

Increasing trend of vegetarian is also happening in Yogyakarta as it can be seen some vegetarian organizations in Yogyakarta, such as: Indonesia Vegetarian Society (IVS), Vegan Society of Indonesia (VSI), Organization of *Tzu chi*, Organization of "*Jogja Vegetarian*", and Organization of *Ananda Marga*. Some of them are only local organizations while the others are official delegation of national or international organizations.

Beside the vegetarian organization, the increasing trend of vegetarian in Yogyakarta can be seen as we can find many vegetarian restaurants and some restaurants that also provide vegetarian menus. Based on data from Indonesia Vegetarian Society (IVS) in 2011, there are 12 vegetarian restaurants in Yogyakarta.

Since vegetarianism is related to diet; the growth of vegetarianism automatically gives influence in the demand of vegetarian food and its ingredients. This condition inspires Mr. Sudjono and dr. Lusia Anggraini

to open Vegetus, a modern minimarket that sells vegetarian stuff and vegetarian food.

Similar to others modern minimarkets, Mr. Sudjono and dr. Lusia intend to establish the Computer Based Information System (CBIS) in Vegetus Vegetarian Minimarket. CBIS is able to give real time and more accurate information as needed. In addition, CBIS can reduce human error since the processes such as calculation, identification, reporting; are done by the computer. That condition also gives more advantages in reducing time needed for those processes. Besides that, CBIS can make the control of the performance of the employee become easier since the record and the report are computerized.

The owners intend to apply the CBIS to support the business processes in Vegetus. As every organization has its own business processes, the CBIS needs to be build based on the requirement. Therefore, this thesis explains the process of developing the information system in Vegetus Vegetarian Minimarket.

### **1.2. Problem Statement**

The problem can be stated as: How to develop a Computer Based Information System (CBIS) to support the business processes in Vegetus Vegetarian Minimarket?

### **1.3. Research Objectives**

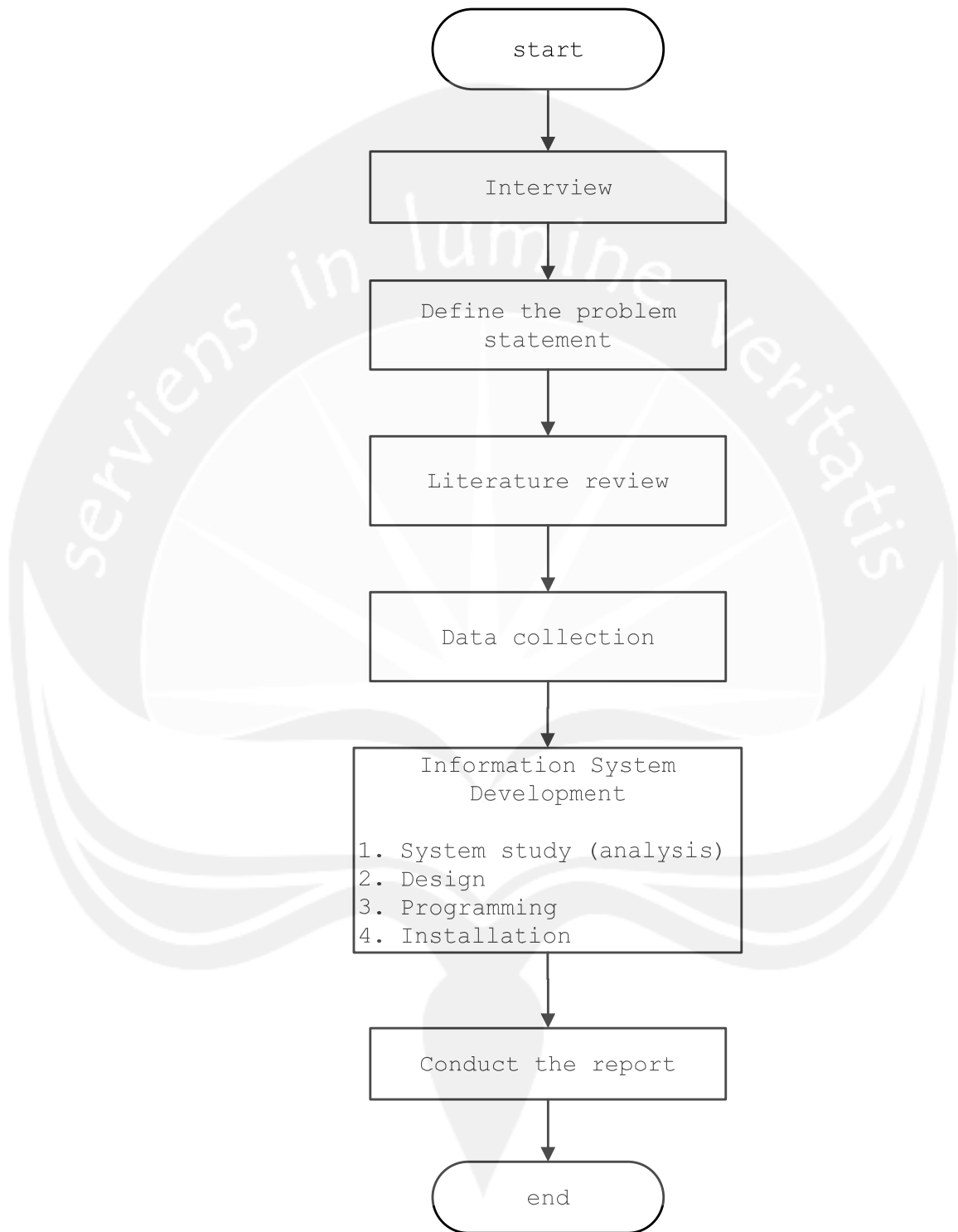
The objective of the project is to develop a Computer Based Information System (CBIS) to support the business processes in Vegetus Vegetarian Minimarket.

#### **1.4. Scope of Research**

1. The information system is developed in Vegetus Vegetarian Minimarket.
2. The information system is developed in order to support the business process in the level of Transaction Processing System (TPS) and Management Information System (MIS) in Vegetus Vegetarian Minimarket.
3. The data used in the simulation are hypothetical data.
4. The information system development is done using the method of System Life Cycle up to the phase of installation.
5. The proposed information system is developed using Microsoft Access 2003 and Visual Basic 6.0 with Operating System software of Windows XP.

#### **1.5. Research Methodology**

The research methodology is shown in figure 1.1 and the detail explanation is explained in the following section.



**Figure 1.1. Flowchart of Research Methodology**

The research methodology is explained in the following explanation:

a. Interview

The author interviews the owner of the minimarket. The interview is done directly and gives some information about the business overview of Vegetus. Besides that, the owners explain the requirement and expectation of an information system that will be build in Vegetus.

b. Define the problem statement

The author defines the problem statement based on the interview.

c. Literature review

The author studies some literatures and theories that are correspond to the methodology for solving the mentioned problem in problem statement.

d. Data collection

Data is collected by interviewing the owners. The author chooses the owners as the quarry since they are the decision maker in Vegetus.

e. Information System Development

The information system development is done by system study (analysis), design, programming, and installation.

1. System Study (Analysis)

The analysis is done in four steps. Those are business process mapping, defining business requirement defining the data involved, and business process simulation.

## 2. Design

The design is done as logical design and document design. Logical design supports the programming phase, whereas document design supports every output in document form.

## 3. Programming

The programming phase is done using software of Microsoft Access 2003 and Visual Basic 6.0.

## 4. Installation

Since the minimarket has not been opened yet, the installation is done by simulation using the proposed information system.

## f. Conduct the report

The author reports all the activities involved in developing the information system in Vegetus Vegetarian Minimarket.

### 1.6. Report Outline

#### CHAPTER 1: INTRODUCTION

In chapter 1, there would be background, problem statement, research objectives, scope of research, research methodology, and report outline.

#### CHAPTER 2: LITERATURE REVIEW

In chapter 2, it is explained about previous researches that correspond to information system development. As the current research is also explained, the previous and current researches are compared.

### CHAPTER 3: THEORITICAL BACKGROUND

In chapter 3, the author encloses many theories that correspond to the research. This theory is gained from many literatures as the reference to solve the problem of developing an information system in Vegetus.

### CHAPTER 4: DATA

In chapter 4, data is presented as needed. The data presented as the business overview, information system requirement, available hardware and software, organizational structure, and product.

### CHAPTER 5: ANALYSIS AND DISCUSSION

In chapter 5, analysis and discussion is done based on the collected data. This chapter explained the methodology used to solve the problem and brief explanation of information system development in Vegetus.

### CHAPTER 6: CONCLUSION AND RECOMMENDATION

In chapter 6, the conclusion is given as the summary of the research. Recommendation consists of any suggestion to the research that can improve the information system in the better way for Vegetus.