

CHAPTER 1

INTRODUCTION

1.1. Background

The selection of software testing methods at PT. Hartono Istana Teknologi is the main obstacle in conducting software testing. Software testing is needed in order to find out whether the system in PT. Hartono Istana Teknologi is good and functioning as expected or not. The manual testing process in this company became the main obstacle in testing software. Therefore the other software testing is implemented to determine the level of successful methods and techniques using the Black Box Testing method with Equivalence Partitioning technique.

Black Box Testing method is used to test the functionality or usability of an application, because it is enough to review the input and output of the software without knowing the program code. The Black Box Testing method has several techniques and also different ways, but in this test using the Equivalence Partitioning technique. Equivalence Partitioning is done by creating a test case based on the equivalence class for input conditions that describe a valid data set or not. Therefore, by knowing the level of success of the technical methods used, we can know whether the methods and techniques used can overcome the problems that existed before.

Software testing is expected to be able to overcome these problems properly, because in software testing it is necessary to think about methods and techniques that are needed. Rather than using the manual method, the use of Black Box Testing method and the Equivalence Partitioning technique will run the software testing process effectively and more specifically. Then from that we can find out that the system that is running is good and appropriate as expected and can make it easier for

users to use the system because they have made a series of test cases that contains the functional testing of the system as a whole.

1.2. Problem Formulation

The problem in this test is one of the main factors for later testing, therefore the author makes several questions to solve these problems, namely

1. How is the success rate of the system using the Black Box Testing Method with the Equivalence Partitioning technique?
2. What are the test results from the manual and when using the Black Box Testing method with the Equivalence Partitioning technique?

1.3. Scope

This project will be carried out at PT. Hartono Istana Teknologi. The Black Box Testing method with the Equivalence Partitioning technique will be used as a testing tool. It will be used on a package delivery program.

1.4. Objective

In research, a goal is needed to be able to determine the direction of a study. The test is carried out using the Black Box Testing method with the Equivalence Partitioning technique because it is a functional test that is considered appropriate. Testing using software testing methods and techniques is expected to make the system more effective and specific than before and determine the level of success of the techniques used by using the Black Box Testing method and the Equivalence Partitioning technique to perform software testing on the system at PT. Hartono Istana Teknologi.