CHAPTER 3
RESEARCH METHODOLOGY

1. Reading Concepts

First, this research was conducted by studying the concept of Artemis on the program package menu. Concepts are made based on UI and overall system Logic. After studying all the concepts from start to finish, it can be seen how functions and logic work in a system.

2. Creating test scenarios

After creating a concept, the next step is to plan the test by creating a scenario about what will be tested. Create a scenario according to what is in the concept. After creating the scenario, the author first tested the buttons and logic functions on the system to ensure how the system output was when testing a function.

3. Making Literature Study

After creating a scenario, you can see what will be tested and how it will be tested, then conduct a literature search regarding the tests to be carried out. The selection of software testing methods and techniques is done after reading the concept to fit the system to be tested. The literature search was carried out in accordance with predetermined software testing methods and techniques.

4. First test

The first test is carried out one by one according to the sequence of concepts that have been given. In the first test, when finding problems with buttons or running logic, the authors noted the obstacles found so that they could be used as material for improvement for the ESD team at PT. Hartono Istana Teknologi. Recording is done

so that the ESD team can justify existing problems and then make improvements so that the system becomes even better and as expected.

5. Create a test case

After doing the first test to find out the system to be tested, the author makes a test case that contains the things that exist in the system to be tested. Testing is done by collecting data from each button function and logic. Test cases are made according to the function of the button and the logic that runs on the concept.

6. Testing according to the test case

Testing is carried out 5 times for each function to ensure the system runs as expected. Tests are also carried out sequentially according to the test case and concept to make it easier to review the test results. At the time after testing, the results are then written in the test case table as documentation that the test has been carried out.

7. Test results review

To review the test results using the Black Box Testing method with the Equivalence Partitioning technique. The review is done so that the author can find out how the test results need improvement or not. After reviewing the test results, the next step is to calculate the level of software testing using the Black Box Testing method with the Equivalence Partitioning technique.