

CHAPTER 3

RESEARCH METHODOLOGY

This final project proposes the application of a concerto platform on the server for online and computerized psychotest exams. The steps that will be carried out in the implementation of this project as follows:

1. Stage of Consultation

The initial phase of the project is consultation with the lecturer as the final project counselor. Consultation begins with topic selection, then determines project creation to completion.

2. Stage of Literature Study and Search for Reference

After the project is known what will be made by literature study by looking for related journals on this project. Journals used related to research on online exam information system primarily based on website.

3. Stage of Preparation

The preparation stage needs to be done in accordance with the terms of the platform concerto installation. Requirements include hardware and software preparation. Hardware consists of a set of networked servers and software needed from Ubuntu 16.04 operating system, apache server, mysql server and R v3.

4. Stage of Installation

installation is the process of installing the required software. Installation starts from Ubuntu operating system, then apache web server, MySQL database server, then R v3 and packages needed. The final stage is the installation of a platform concerto on apache server.

5. Stage of Testing

After the concerto platform successfully installed on the server test is done that includes psychotest questions on the concerto platform. The exam questions and systems use linear and multiple-choice modes. Then tested to run the problems that have been stored in the concerto.

