ABSTRACT

Psychological tests are used to determine human's attitude and behavior. In

its application, psychological tests still use the old method by distributing sheets

of questionnaires or a series of questions to related objects. Objects are asked to

answer questions and then the answers will be collected again to be calculated,

and then conclusion will be drawn from the result. The conclusion is a

representation of one's personality based on the answer of an object that is real or

not fake. It will be time consuming and impractical.

Computer-based psychological test have an answer to these deficiencies.

This research discusses the design and implementation of computer-based

psychological test based on Edwards Personal Preference Schedule (EPPS)

personality theory using linear congruential method for randomization of test item

developed by web-based programming. The EPPS psychological test is used to

measure the user's personality based on the measurement aspects in EPPS.

Through this final project, the author designs and implements computer-

based EPPS psychological tests by utilizing the ease of test item management

using linear congruential method as a randomization method of test item. With the

creation of this system, it is expected to be a psychological test tool that facilitates

the implementation of test, management of test data, test scoring, and distribution

of test results.

Keywords: Computer-based Psychological Test, EPPS, Linear Congruential

Method

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