

ABSTRACT

At this time, almost all applications can be run on smartphone technology. With the smartphone technology, all become easier, practical and efficient. Likewise applications related to health. Therefore, applications related to health continue to be developed until today. But in fact some medical applications it can only be operated by specially-capable workforce. It also takes knowledge that detail because the application is complicated. This is contrary to the principles of current smartphone that puts the principles of easy, practical and efficient in use. Currently people in need of medical applications that is able to be operated by everybody with a practical, and easy to use.

This thesis aims to design a health applications such as expert systems that can diagnose a particular of genital and skin diseases that can be run on smartphones and by all users. This final project using android as an interface and SQLite as a database to save symptom data, disease data, and the data history. This final project using the merger forward chaining and certainty factor for diagnosing process also shows the accuracy of disease diagnosis result.

Keyword : *forward chaining, certainty factor, expert system*