ABSTRACT

EXPERT SYSTEM APPLICATION FOR EARLY DIAGNOSIS OF HEARING HEALTH BASED ON MOBILE DEVICE

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End Task is about the "Expert system application for early diagnosis of hearing health based on mobile device". The application is divided into 5 sections namely: attack, measurement, search, help and about. Users interact with applications via mobile phones. Functionality provided to users are: attack menu to display various health disorders and selected health problems to begin the process of diagnosis, measurement menu to display the various actions that can be done alone in dealing with symptoms, search menu to search for good health disorders or general medical disorders specific health problems by entering a keyword, help menu to display information on how to use menus in the application of this health disorder diagnosis and about menu to display information about the application of this health disorder diagnosis.

Expert system application that created it is able to diagnose health problems experienced as early diagnosis. This expert system application will provide information to the user as a possible cause of diagnostic results, guidelines for medical assistance, and suggestions for actions which can be done to overcome the possible causes. Users can also search based on symptoms of health problems, and the search for his own actions dealing with health problems.

This application is also equipped with multimedia elements such as text, and images. Testing applications using two methods of testing the functionality of applications by application developers use J2ME emulator and the Java-based

mobile phone. Software for application development using Java 2 Micro Edition (J2ME) version 2.2.