IMPLEMENTATION OF FORWARD CHAINING METHOD IN DIAGNOSING LEUKEMIA IN HUMANS

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ABSTRACT

This study aims to create a system that can diagnose leukaemia in humans. Leukaemia is a blood cancer that can occur in children and adults. By utilizing technology, primarily digital technology, the system created can diagnose like an expert who can diagnose leukaemia in humans. The current diagnosis is an initial diagnosis, namely a diagnosis by paying attention to some of the existing symptoms. For the final diagnosis, it is necessary to carry out a physical test in the form of blood test and et cetera. Using this system, it is hoped that it can improve the quality of health in the community, and the prevention of leukaemia in the community can be overcome as early as possible. The process of running the system that is made will be described in the form of an activity diagram describing the various activity flows in the system to be designed. In its implementation, the leukaemia diagnosis system uses the forward chaining method where this method is one of the existing methods in the expert system. This expert system is built with a web programming language, uses a CodeIgniter framework, and uses a MySQL database. After the program has been completed, it is tested with a test results dataset to get an accuracy of 75%, indicating that the system is running well.

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