

EXPERT SYSTEM FOR HUMAN EYE DISEASE DIAGNOSIS USING WEB-BASED FORWARD CHAINING METHOD

MUHAMMAD FADLURROHMAN

Department of Informatics, Faculty of Science & Technology

University of Technology Yogyakarta

North Ringroad St., Jombor Sleman Yogyakarta

E-mail: f4dlurohman@gmail.com

ABSTRACT

The eyes are one of the senses that is very important in human life to see. If the eyes get disorders or diseases of the eye, it will be fatal to human life. Not all people with eye disease can know eye disease. So the eyes should be a member of the body that needs to be maintained in everyday life. Limitations of knowledge in the medical field, financial problems, and transportation difficulties to ophthalmologists make eye disease patients not get the proper treatment. Therefore, researchers created an expert system for diagnosing eye disease in human with a web-based forward chaining method. This application was created to simplify the user in diagnosing the disease early and providing knowledge about eye diseases. The system is built by analyzing needs, such as symptom data, disease data, and handling. Data will be grouped by the type of symptoms that appropriate disease. Using the programming language PHP and MySQL, the study can make the system work. The system testing results using 10 test data obtained the accuracy value of the system diagnosis of 100%. The quality of this system is tested by black-box testing for the functional system, resulting in all functional systems running well.

Keywords: Expert System, Eye Diseases, Forward Chaining, Web-Based