ABSTRACT

DISEASE DIAGNOSIS EXPERT SYSTEM IN CATFISH USING CERTAINTY FACTOR METHOD

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Catfish can be attacked by various diseases, the disease can be seen from the symptoms caused. However, to know for sure the type of disease experienced by the catfish, it requires an expert or fishery expert. While the number of fisheries experts in the country are very limited and can not resolve the problems at the same time, so it needed a system that has the ability as like an expert. Which in the system that provides expert knowledge of a pa kar fishery on diseases, symptoms and treatment of diseases on catfish.

In this study , a *website* -based expert system was built using the *certainty factor* method which aims to assist catfish farmers in diagnosing and treating catfish diseases. The method in making this expert system uses the *prototype* method, namely: gathering requirements, building *protyping* , evaluating *prototyping,* coding the system, testing the system, evaluating the system, using the system. This expert system for diagnosing catfish disease was built using the *Hypertext Processor (PHP)* programming language and *MySQL* data processing .

This expert system is capable of downloading diagnosis of the disease suffered by catfish by choosing the confidence level of symptoms experienced. Based on the selected symptoms, this system will provide diagnosis results and display suggestions for countermeasures for the illness.

Keywords: Expert System, *Certainty Factor* , *Website* , Catfish Disease