

ABSTRACT

Livestock is one of the jobs of most Indonesians. Most Indonesian people choose livestock because of the difficulty of finding work, especially people in rural areas, most of whom only graduate from junior high or high school. Cows are livestock that have promising economic potential. Therefore, many people choose cows to be used as livestock. The obstacle that is usually faced by cattle breeders is the disturbance in the health of the cows, especially during the reproductive period of the cows which are very susceptible to disease so that they can cause disability and even miscarriage during pregnancy. It is very unfortunate if a cow that is pregnant experiences this without knowing the treatment and prevention. Therefore, the owner of the cow must know the disease during the reproductive period of the cow, so that prevention and treatment can be carried out as early as possible. In this case, the system was developed using the Forward Chaining method as a method in determining the diagnosis of female cattle reproductive diseases. It is hoped that this expert system can provide early information and treatment related to diseases that attack cattle reproduction. An expert system is a system designed to mimic the expertise of an expert in solving an existing problem. The results of system testing using 20 test data obtained the accuracy value of the system diagnosis of 85%. The quality of this expert system is tested by black box testing for system functionality, which results in all functional systems running well.

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