IMPLEMENTATION OF DISEASE DIAGNOSIS EXPERT SYSTEM APPLICATION IN CATS USING ANDROID BASED FORWARD CHAINING METHOD

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ABSTRACT

Until now, there are many animal and veterinary hospitals or veterinarians in Indonesia, although not evenly distributed. Sometimes pet owners, especially cats, are still confused and reluctant to take their sick cats to a veterinary hospital because they may lack knowledge of cat diseases, the distance is too far, and the costs are quite expensive. So there are several problems that occur, such as not being precise and quick in handling first aid and being too slow when providing veterinary assistance to cats. In order to overcome this problem, an Expert System application was created to diagnose diseases in cats as a solution to reduce the level of problems that have been mentioned. The research method begins with problem identification and data collection through literature study and interviews with veterinarians, then continues with system design, implementation and testing. With the Expert System technology, it uses the forward chaining method to diagnose early diseases that may occur in cats based on Android using the Dart and Flutter programming languages as the framework. The results of the research succeeded in creating an expert system that provides diagnostic output and first aid treatment for diseases in cats based on symptom input made by the user. The expert system developed is useful for helping the public obtain information about cat diseases and first aid solutions accurately, easily and quickly.

Keywords*: Cats, Expert Systems, Android, Forward Chaining, Veterinary*