ABSTRACT

KANTA SASMITA. An Expert System for Identification of Pest on Coconut Palm and Oil Palm. Under direction of TOTO HARYANTO and SONY HARTONO WIJAYA. The Expert is NINA MARYANA.

The decreasing of coconut palm and oil palm productivity, as export commodities, was caused by continuously plant pest. This expert system can be used as a tool to identify the kinds of infections on the coconut palm and oil palm, and how to treat the pest according to the damage indications which can be seen on the outside of the plants, such as leaves, blossoms, and fruits.

This expert system was developed using software lifecycle method in its design and development. This system was made using web programming language PHP and MySQL in its database organization. The kind of representation used is rules with forward chaining. With this system, user can identify the kind of infections on the coconut palm and oil palm according to the indications submitted by user. This system is also able to add, change, and delete the indications and the result of consultation which done by admin.

Keywords: expert system, coconut palm and oil palm, forward chaining, rules.