

ABSTRACT

IDENTIFICATION SYSTEM FOR RICE PLENT DESEASES BY USING *FORWARD CHAINING* METHOD

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Rice plant diseases can be identified from their symptoms. To find out exactly the rice plant disease, it will need agricultural experts. Numbers and distributions of agricultural experts are very limited and they cannot overcome the problems optimally, so that a system containing knowledge as what experts di is required. This research was to design web-based experts system by using *forward chaining* method and *certainty factor*. Data processed in this system were 16 diseases and 26 of disease symptoms. This system which was developed had superiorities and easiness in accessing it, user friendly, and displaying certainty levels from diagnosis results with 81% of customer's satisfaction.

Keywords - *forward chaining*, experts, rice plant diseases, expert system