

## **ABSTRACT**

### **DESIGNING OF AN EXPERT SYSTEM FOR DIAGNOSING DISEASES OF CHILI USING FORWARD CHAINING METHOD**

**By**

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Chili can be attacked by a lot of diseases. Those diseases can be recognized from its symptoms by an expert. Due to less number of experts, and the time is limited; it needs an expert system which has the same capability as an expert. This system must have the knowledge as an expert such as the names, causes, and symptoms of diseases.

A desktop-based expert system was built using rule based reasoning along with forward chaining inference method to help farmers to diagnose the diseases. This expert system was made using linear sequential method; needs analysis, designing, coding, examination, and implementation. This expert system was developed using Visual Basic Programming language and Visual Data Manager is the storage database. This software has advantages in ease of access and ease of use.

This software can detect what diseases that are suffered by chili by inputting symptoms as it showed to the software. Based on the symptoms given, this software will show the result of diagnosis, therapeutic suggestions, prevention advice as well as the list of more specific symptoms.

*Keywords : expert system, rule based reasoning, Visual Basic, Visual Data Manager, Forward Chaining.*