ABSTRACT

Medicinal plants are an alternative treatment with minimal side effects than pharmaceutical drugs. However, the use of medicinal plants for treatment of a disease is less popular. That is because lack of information and knowledge about the efficacy of medicinal plants and how to use medicinal plants to cure diseases.

With the help of technological developments such problems can be solved by creating an expert system that can guide the general public about the use of medicinal plants as alternative medicine. Expert system is a computer-based system section of artificial intelligence capable of storing and applying expert knowledge of an expert in solving a problem.

Expert system's built by using the PHP programming language and HTML as the interface and inference engine, and uses MySQL as a database for storing data symptoms of illness, disease name, the name of medicinal plants, properties, and how to use the medicinal plants. In an expert system that was built use a combined of forward chaining approach and the use of certainty factor method for tracking the disease process also to indicates the level of accuracy of diagnosis of disease.

The results of the implementation of this final project is the application of expert system is capable of detecting the disease suffered by a user based on the symptoms that given by user as an input system with accuracy in the illness's diagnosis reached 86.67% and the system is able to provide advice on medicinal herbs and how to use herbs to treat diseases with accuracy in the selection of medicinal herbs recommendations reached 100% based on allergy / contraindications contained in the herbs.

Keywords : Expert System, Certainty Factor, Medical Plants