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KEY WORD : POISONOUS PLANTS AND MUSHROOMS/ WEB DATABASE SYSTEM

RUTCHANEE CHANTRAKET: A DEVELOPMENT OF WEB DATABASE SYSTEM FOR POISONOUS PLANTS AND MUSHROOMS IN THAILAND. THESIS ADVISOR: SUNTTINANT NANTACHIT M.S., WEENA IIRATCHARIYAKUL Dr. rer. nat., CHUMCHOK NAMSRISAKULRAT M.Eng., 95 p. ISBN 974-664-135-2

Little information about poisonous plants and mushrooms is available in the Internet. The purpose of this study therefore is to analyze, design and develop appropriate application providing reference material on poisonous plants and mushrooms in Thailand. The Web Database was developed for the search of the poisonous plants and mushrooms information on the Internet. It could reduce access time and produce consistent data. The application was designed and developed using a relational database. The software used included Microsoft SQL Server 7.0 as a Database Management System, Microsoft Visual Basic 6.0 as a program, Internet Information Server (IIS) as a web server, and VBScript for Internet Server Application Program Interface (ISAPI) as an interface between web server, database and users.

The result of this study is a Web Database giving information on poisonous plants and mushrooms in Thailand. It is an application reference program, which contains 100 species of poisonous plants and 50 species of poisonous mushrooms. The assimilated data included plant/mushroom names (scientific names, synonyms, common names or English names, local names and families), images, descriptions of poisonous plants and mushrooms, toxic substances, poisonous plant parts symptoms, treatments and references. Characteristics of the poisonous mushrooms and related species as well as level of toxicities are indicated. The system is divided into 2 parts, the application server and the application for retrieval from browser. The application server can identify the user before entering the system, i.e. insert, edit poisonous plants and mushrooms information and print out the information. The application for retrieval from the browser is based on steps of the information search.

The web database is tested and evaluated. The result shows that the users were satisfied with the efficiency and information obtained from the database.