ABSTRACT

EXPERT SYSTEM BODY SHAPING SOLUTION APPLICATION DEVELOPMENT WITH NATURAL LANGUAGE PROCESSING IMPLEMENTATION IN WEB-BASED

By
ZULFIKAR SEMBIRING
10108475

Body Shaping is a body building program that is done by weight training, diet and supplementation settings. If someone wants to know about what exercise program should be done for the formation of the body, of course, in consultation with the expert instructors who are experts in the field of body building. However, the limited instructor is one of the obstacles as well as consult any information submitted is not fully explained in detail. Development of expert system application is designed to help communities make it easier to get information about body building. To make the application expert system uses Natural Language Processing that aims to make the time to consult the public as if it could interact directly with experts or instructors body formation.

In the process of the development of this expert system application that is built on knowledge representation target information, supplements, disease, nutrition and exercise are associated with the formation of the body, and then formed a production rules (if-then rules). This expert system using a forward chaining reasoning and search methods used are Depth First Search (DFS). In its development, the expert system is also implemented using the Natural language processing.

Of tests performed, it can be concluded that this expert system can assist in providing information about solutions for the shaping of the body.

.

Keywords: expert systems, forward chaining, body shaping, natural language processing.