E-Learning Teaching Tool based on Natural Language Processing

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The Growth of Technology has influenced on E-Learning through Natural Language Processing. It has completely changed the traditional way of learning with the rapid growth in the development of information retrieval, which makes an expressive and efficient way of quick and effective reach to the students over vast information through Natural Language Processing. This Research represents to a Question Answering Teaching Tool which is limited for a particular area. Number of relevant answers for the question is stored in the database by experts. Students have a facility to type the question in a given space and the system automatically generates the templates, and all the user-questions are taken as Natural language queries as input. Here each and every template representing a question are pre stored in a database with its answer, just when the best matched template for the question is found, the corresponding answer will be returned to the end user. The Template matching Technique has been used to match the most suitable answer. Major development starts with Frequently Asked Question with in-built as automated question answering process. This Research analyze as How to understand a natural language question and How to represent the semantic content of an instructional text question as well as How to measure the relevance between a question and the Answer for it in content –based retrieval. The main contribution is to give more suitable answer and its improved versions of answers for the question which typed and it is understood by natural language processing techniques. This research resolves in real environment, whenever they have a doubt in the relevant area.

Keywords: Template Matching, Natural Language (NL), Question Answering System

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