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APPLICATION OF SEMANTIC SIMILARITY USING ONTOLOGY FOR DOCUMENT COMPARISON**PALLAWI UNMESH BULAKH****ASST. PROFESSOR****DEPARTMENT OF COMPUTER SCIENCE****MODERN COLLEGE OF ARTS, SCIENCE & COMMERCE****PUNE****DR. AJIT MORE****PROGRAM DIRECTOR (MCA)****BHARATI VIDYAPEETH DEEMED UNIVERSITY, INSTITUTE OF MANAGEMENT & ENTREPRENEURSHIP DEVELOPMENT****PUNE****ABSTRACT**

Semantic Web and ontology are the new area of interest as the information is not only treated and presented as document but the semantics of the information is considered as well. Ontology provides a conceptual specification of the content or meaning. There has been a lot of research on measuring the semantic similarity between documents/ words/ sentences. Using this concept of document similarity, we thought of designing a tool for assessment of subjective answer sheets of students. The assessment of subjective answer paper is still done manually. Manual assessment of the answer paper has its own pros and cons. The paper presents a brief introduction of semantic web and ontology. We discuss the application of semantic web as semantic similarity using ontology, also, the current manual assessment system and its lacuna are elaborated. We propose a framework for automated assessment of theoretical question papers using semantic similarity and ontology.

KEYWORDS

Ontology, Semantic web, Semantic Similarity, WordNet.

INTRODUCTION

emantic web and its applications is a new growing era in the world of www. Berners-Lee defined the Semantic Web as “a web of data that can be processed directly and indirectly by machines” (Vladimir Oleshchuk, 2003). It is concerned with the meaning of data rather than its structure. It is a mesh of information linked up in such a way as to be easily processable by machines, on a global scale. Here, information is given well-defined meaning, better enabling computers and people to work in cooperation.

Semantic web is an effort to enhance current web so that computers can process the information presented in www, interpret it and connect it to find required knowledge (Cambridge Semantics, 2013).

The main focus of semantic web is sharing of data instead of documents. It provides a common framework for sharing data across enterprise, applications. It also provides the language for describing the information in machine readable form (Vladimir Oleshchuk, 2003).

Ontologies play a key role to shaping information as they provide conceptualizations of domains. Ontologies have been very useful in information integration, peer-to-peer systems, electronic commerce, semantic web services, social networks etc. They provide the conceptual meaning to data (Neepa Shah, (2009).

The WorldWideWeb contains huge repositories of information in HTML documents, it contains so much, that, locating information entities that are “of interest” for a user becomes a great challenge. Even sorting through a tiny subset of HTML documents for particular objects of interest is a tedious task. It’s very difficult to find relevant information required by a wide variety of users (Tim Berners Lee, 2005).

The application areas of Semantic web are mainly knowledge management which includes acquiring, maintaining and accessing the information using ontology. Here, in this paper we are concerned with the application of semantic web regarding semantic similarity between the words, documents.

Semantic similarity or semantic relatedness is the concept which defines the relation between two words. It attempts to find the relationship between the words. Humans can easily justify the relationship between the two words though they are lexicographically different, or how a pair of word is related to each other. Budanitsky and Hirst point out that semantic similarity is used when similar entities such as apple and orange or table and furniture are compared (Budanitsky, 2006). There are two main types of methods used to calculate the semantic similarity between the words. Dictionary based methods and corpus-based methods. Also some hybrid methods are used to find the degree to which the two concepts or words are related.

REVIEW OF LITERATURE

A paper on semantic matching of software project documents elaborates the approach for finding the similar project documents in the repository. The method makes use of ontological comparison to find the similarity between documents specified in a structured format (M.V.Deshpande, 2009).

In a study on Semantic Similarity, authors consider ontology as knowledge structures that specify terms, their properties, and relationships among the words for extraction of knowledge from text. Authors represent the ontologies using a graph based model which represent the terms and their semantic relationships. The authors have used a concept named document articulation which means finding the links between document contents and ontology terms. This articulation can be built using structural matching between ontologies and documents. Here, mere text document comparison is avoided; instead, the augmented document by document articulation is used which gives more relevant similarity results. (Vladimir Oleshchuk, 2003)

CURRENT ASSESSMENT SYSTEM

Multiple-choice questions (MCQs) are being increasingly used in higher education as a means of supplementing or even replacing current assessment practices. The growth in this method of assessment has been driven by wider changes in the higher education environment such as the growing numbers of students, reduced resources, modularization and the increased availability of computer networks. On this background, the online assessment of subjective question papers is done manually. There are various tools for context summarization. But further research in assessing the subjective answers is still in process. Thus there is a need to automate this task by developing software that can automatically extract ontologies from given documents, and perform semantic analysis on it, eliminating the need for manual work.

Manual assessment of subjective answer papers of students has its own pros and cons. .Being a laborious and time-consuming activity, it naturally takes up a significant amount of human time and effort. This project proposes to automate this activity.

In order to achieve this, the answer papers are first represented in ontological form. We present a method which provides the user with a value of similarity between the terms of two ontologies. The method is based on the use of the lexical database defined by WordNet and the application of semantic similarity algorithms. We have applied this concept specifically to obtain similarity between the model answer paper and the answer paper to be assessed.

The objective of the system is to automatically assess the subjective answer papers of students semantically and perform semantic matching and effective assessment of these papers. The system will then generate a measure of the similarity between two papers.

PROPOSED SOLUTION

The given system accepts answers of questions as input from keyboard. The objective is to compare the current paper with the paper in the repository and display a measure of the similarity between them. These values are displayed in terms of marks obtained.

In order to achieve the above objective we need to represent the answer entered by student in the form of an XML document such that it is feasible to extract knowledge from it. Each sentence in the paper is represented as an XML tag. The contents of the subtitles are further divided into XML sub-tags to obtain in depth knowledge representation for ease of syntax and semantic analysis. This is the first step called ontology creation.

We then perform a tag-by-tag semantic comparison of the two papers. This is accomplished with the help of WordNet lexicon. We compare the meanings of the tags rather than just a simple letter-by-letter word comparison. WordNet also helps us to determine the relationship between the tags-whether they are synonyms, hypernyms, hyponyms, etc. This comparison returns the depth of the relationship between the two words by constructing a relationship tree. This depth is used by our algorithm to compute the measure of similarity between the two documents.

Compute the final similarity measure. The tags which are higher in the hierarchy are assigned higher values for the weight as compared to the tags which are lower in the hierarchy. The similarity measure is in percentage form and is the final output of the system.

CONCLUSION

In this paper, we have presented a framework for automated assessment of theoretical answer papers. The study can be further extended for semantic search, text summarization. Also, the framework for semantic integration of data can be proposed.

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In this age of Commerce, Economics, Computer, I.T. & Management and cut throat competition, a group of intellectuals felt the need to have some platform, where young and budding managers and academicians could express their views and discuss the problems among their peers. This journal was conceived with this noble intention in view. This journal has been introduced to give an opportunity for expressing refined and innovative ideas in this field. It is our humble endeavour to provide a springboard to the upcoming specialists and give a chance to know about the latest in the sphere of research and knowledge. We have taken a small step and we hope that with the active co-operation of like-minded scholars, we shall be able to serve the society with our humble efforts.

Our Other Journals

