موقع أخبار رياضية بتعليقات دلالية قائمة على ووردنت

Sport News Website with WordNet

Based Semantic Annotation

مشروع التخرج هو احد متطلبات الحصول على درجة البكالوريوس في تخصص شبكات المعلومات في تكنولوجيا المعلومات.

A Graduate Project Submitted to the department of Information Networks of the College of Information Technology, University of Babylon, in Partial Fulfillment of the Requirements for the Bachelor's degree in the Information Networks of Information Technology.

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Abstract

The project presents a comprehensive solution designed to enhance user experience and content understanding within the realm of sports news. It addresses the pressing need for efficient information retrieval and semantic comprehension within the context of online sports journalism.

Users and content creators encounter challenges when accessing and understanding sports news articles, as traditional keyword-based search and classification methods often fail to capture the nuances and context-specific meanings inherent in sports-related content. This limitation results in suboptimal user experiences and restricted engagement with sports news platforms.

To overcome these challenges, the project proposes the integration of WordNet-based semantic annotation techniques into a sports news website. WordNet, a lexical database containing English words and their semantic relationships, acts as the foundation for enriching sports news articles with additional contextual information and semantic metadata. By leveraging the extensive vocabulary and semantic associations provided by WordNet, the project aims to enhance the accuracy, relevance, and depth of sports news content.

The work proposal outlines key components and functionalities of the proposed solution, including the development of a custom semantic annotation engine capable of analyzing sports news articles, identifying relevant concepts and entities, and annotating them with semantic metadata derived from WordNet. Additionally, the project entails integrating the semantic annotation engine into the sports news website's content management system, facilitating seamless annotation of new articles upon publication.

Implemented features encompass automatic semantic annotation of sports news articles, wherein the system analyzes content and annotates it with relevant concepts, entities, and semantic metadata extracted from WordNet. Enhanced search and recommendation capabilities enable users to access improved search results and personalized recommendations based on enriched semantic metadata associated with sports news articles. Furthermore, the system enhances contextual understanding and content enrichment by leveraging WordNet's semantic relationships, thereby improving readability and comprehension.