"A Cloud-Based Abstract Management System Using ASP.NET and SQL Server"

The increasing volume of research papers and academic publications has created a need for systems that can efficiently manage and retrieve abstracts of research papers. This paper presents a cloud-based abstract management system developed using ASP.NET and SQL Server, aimed at improving the organization, storage, and retrieval of academic abstracts. The system is designed to help researchers quickly access a database of research abstracts and find relevant papers based on their queries. The abstract management system uses the ASP.NET Core framework to provide a responsive web interface, allowing users to upload, search, and retrieve abstracts stored in the SQL Server database. The abstracts are indexed and categorized according to research topics, authors, and publication years. The system supports full-text search functionality, using both keyword-based search techniques and semantic search based on vector representations of abstracts. For semantic search, the system leverages pre-trained word embeddings such as Word2Vec to understand the context and meaning of user queries. The cloud-based nature of the system allows it to scale efficiently, handling large volumes of abstracts and supporting multiple users simultaneously. The abstracts are stored in SQL Server, providing a robust and secure storage solution with support for complex querying and filtering. The system also incorporates user authentication and role-based access control, ensuring that only authorized users can upload or edit abstracts. Performance evaluations show that the system provides fast and accurate abstract retrieval, improving the efficiency of academic research. The paper concludes by discussing the potential for expanding the system with advanced features such as citation analysis and integration with external academic databases.