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Research on HBase-Based BIM Model Storage Technology (Postprint)

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Abstract

With the rapid development of computer and Internet technologies, Building Information Modeling (BIM) has emerged. As a novel architectural technology paradigm, BIM is driving tremendous transformation in the construction industry. Concurrently, big data and cloud computing technologies have become prominent topics of discussion. The integration of big data and cloud computing with BIM technology represents the future development trend of the construction industry. This study investigates the storage of BIM models in an open-source HBase database built upon a big data platform. Through research and analysis of the internal structure of IFC (Industry Foundation Classes), the open standard for BIM models, we design an HBase database schema based on IFC, and subsequently develop a comprehensive Java API library for HBase based on the IFC format. Finally, the technical methodology for storage is demonstrated through an example application of the HBase JAVA API.

Full Text

Preamble

Note: Figure translations are in progress. See original paper for figures.

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