

Application of component-oriented technology to build an online dormitory management system

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Abstract: In the context of the increasing demand for online dormitory services, this topic aims to solve the problem of improving management efficiency through the application of component-oriented technology. The objective of the research is to build an online dormitory management system based on a distributed and modular architecture to meet the diverse needs of students. The approach combines theoretical research with experimental deployment, aiming to optimize the information management process and improve the user experience for end-users. The expected results of this topic will have high applicability in educational organizations, while also providing a scientific basis for the development of online management systems in the future.

Keywords: Dormitory management system, Component-oriented technology, Application experiment, Distributed architecture, Network resources