

Build a smart room management application to support digitalization and optimize operational and fee collection processes.

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Abstract: In the context of the rapid development of information technology, this topic focuses on building a smart boarding house management system aimed at digitizing and optimizing operational and fee collection processes. Through a thorough study of the current state of boarding house management, we have identified an urgent need for improvement by applying advanced technologies such as IoT, AI, and Blockchain. The approach of this topic includes both theoretical research and experimental deployment on a mobile application platform. The expected result is the creation of a sustainable solution that can be widely applied in the real estate industry, thereby improving management efficiency and enhancing the experience for both landlords and tenants.

Keywords: Smart room management application, IoT, Blockchain, Operational process optimization, Fee collection