

Building an Android application for managing apartment incidents with Chatbot support

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Abstract: The thesis researches and develops the HiHouse system to optimize apartment building management. The Android application is designed for two main user groups: residents and management, enabling issue reporting, bill tracking, and real-time notifications via Firebase Cloud Messaging. A special feature of the application is the integration of a Chatbot based on the Gemini API large language model, providing quick answers to questions about building regulations and services. The system uses the MVVM architecture, with the Backend developed using Node.js (Express) and MySQL, ensuring scalability and stability in real-world environments.

Keywords: Apartment management, Android Development, Gemini API Chatbot

References

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