

# **Building hotel management software based on multi-tier architecture and .NET platform**

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**Abstract:** This topic aims to research and deploy a hotel management software system using a multi-tier architecture model, with the goal of optimizing operational performance and improving customer experience. Through the process of requirements analysis, design, and construction, the topic applies a practice-based development method combining theoretical research and application deployment on the .NET platform. The results of the topic not only provide a modern technical solution for the hotel industry but also contribute to the development of information technology in the field of tourism service management.

**Keywords:** Hotel management software, multi-tier architecture, .NET platform, performance optimization, experience improvement