

ANALYSIS AND DESIGN OF LAND AND HOUSE MANAGEMENT INFORMATION SYSTEM FOR DONG DA DISTRICT, HANOI USING OBJECT-ORIENTED APPROACH WITH UML

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Abstract: The thesis conducts analysis and design of an integrated Land and Housing Management Information System (MIS) for Dong Da District, Hanoi, based on an object-oriented approach using UML. The author begins with a detailed survey of the current state of state management processes, assesses the existing IT infrastructure, and identifies manual shortcomings. Using UML tools, the system is specified in detail through Use Case diagrams, decomposing functions for document management, Certificate issuance, and land change tracking. The overall design proposes a secure network architecture, security and backup solutions, as well as a database schema. The results are verified through a practical test program.

Keywords: Information system, land management, UML, object-oriented, housing management, Dong Da district

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