Analysis and Design of an Information System for Land and House Management in Dongda District, Hanoi

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***Abstract*—This thesis examines the current state of land and house management in Dongda District, Hanoi, and proposes an information system design using UML. The study analyzes the existing organizational structure and land management functions, and evaluates the current application of CNTT in land and house management. The proposed system aims to integrate with existing infrastructure and be adaptable for future development, ensuring security and compliance with international and national standards. The design includes detailed use cases and a UML model, but further testing and implementation are needed to validate its effectiveness.**

***Index Terms*—Unified Modeling Language, land management, house management, information system, Dongda District, Hanoi**

I. Introduction

The thesis investigates the current state of land and house management in Dongda District, Hanoi, and proposes an information system design using UML. It analyzes the existing organizational structure and land management functions, and evaluates the current application of CNTT in land and house management. The study aims to design a system that integrates with existing infrastructure and is adaptable for future development, ensuring security and compliance with international and national standards. [1]

II. Methods

The study uses UML (Unified Modeling Language) to design the system, focusing on the current state of land and house management in Dongda District. It also evaluates the existing infrastructure and proposes a system that integrates with existing networks and is adaptable for future development. The design includes detailed use cases and a UML model, which are essential for the implementation of the proposed system. [1]

III. Results

The results show that the current land and house management in Dongda District is complex and requires an integrated information system. The proposed system aims to improve efficiency and ensure data security, but further testing and implementation are needed to validate its effectiveness. The design includes detailed use cases and a UML model, which are essential for the implementation of the proposed system. [1]

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IV. Discussion

The proposed system design using UML is a practical approach to managing land and house data in Dongda District. However, the implementation of such a system faces challenges related to existing infrastructure and the need for continuous updates to ensure its relevance and effectiveness. The study highlights the need for a system that integrates with existing infrastructure and is adaptable for future development, ensuring security and compliance with international and national standards. [1]

V. Conclusion

The thesis concludes that the proposed information system design using UML is a step towards improving land and house management in Dongda District. It highlights the need for a system that integrates with existing infrastructure and is adaptable for future development, ensuring security and compliance with international and national standards. [1]

References

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