IMPLEMENTATION OF HOUSING MANAGEMENT INFORMATION SYSTEM USING AGILE METHOD WITH EXTREME PROGRAMMING MODEL
(CASE STUDY OF GRAHA NIRMALA HOUSING)

THESIS

For Partially Fulfil the Requirements
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PREFACE

Praise be to God Almighty for His blessings and grace, so that I can complete a thesis entitled:

Implementation of Housing Management Information System using Agile Method with Extreme Programming Model
(Case Study of Graha Nirmala Housing)

I would like to thank everyone involved who helped me to complete this thesis report from beginning to end. For that I would like to express my deepest gratitude to:

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I realize that the preparation of this thesis proposal report is still far from perfect, therefore I expect all constructive criticism and suggestions. Hopefully this thesis can provide benefits for all of us. Thank you for your attention.

Yogyakarta, 27 January 2022

Author

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ABSTRACT

Graha Nirmala housing has admins that manage housing data and occupant's contribution payment. This management use Microsoft Excel to manage the housing data. However, this management still has several problem which are data inconsistency since there is no data validation on each column and most of the flows have dependency to the admin. Admin dependency increase the probability of human error and redundant actions that makes the management less efficient. It even increase more probability of human error since people taking admin role of the housing not as their main job or livelihood.

Housing management information system is needed to tackle the problems and meet housing needs. The system able to manage data of the housing and handle contribution payment with automatic payment checking. In this research, a housing management information system developed using Agile method with Extreme Programming model as the development stages framework.

This research successfully developed a housing management information system. In terms of functional testing with Blackbox testing, all the test cases that tested in every sprint are success, it means the system works as expected according to its functionality. This system able to manage housing data, ensure data type of each column, generate bill every month, and handle payment with automatic payment checking. It tackles pain points of previous system and accommodates the housing needs.

Keywords: Agile, Extreme Programming, Management Information System, Payment.