

A Blockchain-Based Solution for Data Management and PDP LAW Privacy in
Agriculture Data to Comply in HARA Data Acquisition Product

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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This thesis explores the integration of blockchain technology with data management practices to ensure compliance with Indonesia's Personal Data Protection (PDP) Law within the agricultural sector. The study focuses on HARA, a startup that collects and manages farmers' personal and land data to facilitate access to financial services and insurance. By adding a blockchain layer, HARA aims to enhance data integrity and trust among stakeholders. The research identifies compliance gaps in HARA's current data management system and proposes a framework for aligning both off-chain and on-chain data with PDP Law requirements. Key objectives include analyzing HARA's data practices and validating the proposed solution through expert feedback. This study contributes to the broader understanding of how blockchain can be leveraged to meet regulatory standards especially PDP law while maintaining operational efficiency in the agricultural industry.

Keywords: Blockchain, Agriculture Data, HARA, Data Privacy, PDP Law.



DEDICATION

This thesis is dedicated to my family, and especially to my baby, who was born during the creation of this work and my husband who fully support me all the time. To my company, for their support in allowing me to pursue my master's degree and complete this thesis. I also dedicate this to my friends and lecturers, whose guidance and encouragement helped me navigate the challenges of completing this thesis during my pregnancy and the newborn phase. Your support has been invaluable, and I am deeply grateful.



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