## *ABSTRACT*

*Rachel Farma Pharmacy is a business that functions as a health service facility that provides medicines and medical devices, as well as providing pharmaceutical services which was founded in 2012 in Medan City, North Sumatra. Optimal drug inventory management is very important to support pharmacy operations. However, Rachel Farma Pharmacy faces challenges in managing drug supplies as well as difficulties in collecting transaction data because it is still done manually. Recording transactions carried out manually is prone to errors which result in inaccurate data which can interfere with drug stock management.*

*The design of the management information system and transaction data was designed using the Rapid Application Development (RAD) method. There are four stages in design, namely: requirements planning, user design, construction, and cutover. After the system has been designed and developed, a verification process is carried out using Black Box Testing and a validation process using the User Acceptance Test (UAT) method.*

*The result of this final project is a Drug Inventory Management Information System and Transaction Data that is capable of collecting transaction data and monitoring drug stocks in real-time. This information system enables appropriate decision making in procurement planning and improves pharmacy operations.*

*It is hoped that the proposed drug inventory management information system and transaction data can solve the problems experienced by Rachel Farma Pharmacy because this system can simplify the transaction data collection process, helping drug inventory management. Apart from that, this system is expected to be able to overcome human error so that Rachel Farma Pharmacy can achieve business goals optimally.*

***Keywords – Inventory Management, Pharmacy, User Acceptance Test, Rapid Application Development, Transaction Data.***