



**UNIVERSITY OF THE PHILIPPINES
OPEN UNIVERSITY**

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**CADENCE: AN AI-POWERED OPERATIONS PLATFORM FOR GREENROCK
AGRIFARMS SG TRADING INC.**

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ABSTRACT

GreenRock Agrifarms SG Trading Inc. currently operates on a file based system to track sales and inventory. Staff spend hours manually preparing reports that may lead to operational incidents due to the risk of human errors during data processing. This project aims to design, develop, and build CADENCE, an AI-powered operations platform that will provide insights on poultry operations like inventory and sales. The solution will run on AWS, will be integrated with Claude AI for operational insights, display dashboard KPIs, improve data entry & processing accuracy, and allow immediate reports generation. Ultimately, allowing GreenRock executives and shareholders to make data driven tactical and strategic plans.