

# **GROCERY INVENTORY MANAGEMENT TOOL**

**Jason Arnolda**

A dissertation submitted in partial fulfilment of the requirement  
for  
Bachelor of Science (Honours) in Business Information  
Systems

**Business School**

**Informatics Institute of Technology, Sri Lanka**  
**in collaboration with**  
**University Of Westminster, UK**

2023

## **Abstract.**

Due to the economic downturn in Sri Lanka, organizations in the grocery business have highlighted inventory management as a critical concern. Due to uncertain demand and pricing movements, this has resulted in lower earnings and the closure of numerous retail establishments. To solve this issue, numerous organizations have worked together to identify gaps and develop solutions that will not harm businesses or the economy.

GIMT is developed to monitor customers' daily purchases of products and purchase techniques along with the supplier's products to provide an efficient business process, guaranteeing that the appropriate inventory is maintained. To manage the issue effectively, effective suggestions need ongoing monitoring of these changes, and this system provides a full framework for daily, monthly, and yearly recommendations on demand and prices. It has the unique property of concurrent information management, which may be compared to earlier studies.

It also features an optimization-based stage for creating reports and notifications concerning inventory purchases.