

6COSC023W – Final Project Report

Ground Control - Waste paper management system for waste paper trading SMEs to enhance warehouse operational efficiency

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This report is submitted in partial fulfilment of the requirements for the

BSc (Hons) Business Information Systems

at the University of Westminster

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Date: May 20, 2022

Abstract

The global population in urban areas has continued to rise over the past decades and naturally has been forecasted to grow over the upcoming decades. The need for products to satisfy the requirements of such massive populations has also resulted in the increase of waste products as well as production waste and waste from post-consumption. In order to manage these all urban cities and land holding comparatively large numbers of people require waste management to take care of the waste that is produced on a regular basis. Waste management covers all the activities necessary for monitoring and processing the waste generated in a city.

Therefore, the main aim of this project is to design and develop a waste management system that aids small and medium-sized waste paper trading companies to help them improve the level of synergy in the operations management within warehouses that procure and manage waste paper and related products, which in turn would also help improve the efficiency of operations within their warehouses. The main methods of data collection that were used during the course of the project were face-to-face interviews and observation. An in-depth study was done by evaluating all existing waste management systems that exist in Sri Lanka and internationally in order to design an appropriate solution.

This solution focused on eliminating or reducing the impacts of problems identified in the operations management practices of Sri Lankan waste paper trading SMEs by working closely with such agencies and getting their feedback and suggestions. As a result, it will enhance the quality and synergy of operations within waste paper management warehouses and pave the way for more efficient and more profitable waste paper trading businesses. Legal, ethical and social issues were considered throughout the development of this project to ensure a functional and realistic product is produced.