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The Development of Inventory Management System : A Case Study of KK Food co.,Ltd

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Abstract

KK Food Co., Ltd. is a distributor in the food industry. The company provides both fresh and processed products, and it has experienced some difficulties in its inventory management system. Formally, a paper-based system was used; as a result, mistakes were found in the records. Also, the process of placing orders was inconvenient and redundant as the information that was originally written in a paper needed to be entered on a computer before being faxed to manufacturers. This redundancy has wasted valuable time of the company. Therefore, researchers have developed an inventory management system based on the case study of KK Food Co., Ltd. in order to facilitate work process, systemize the data, reduce task redundancy, and enhance data accuracy. This system, written with PHP script on MySQL database system, was developed based on the framework of SDLC (System Development Life Cycle), and the Waterfall Model was used for software development so that revision and verification can be conducted. The Operation Research theory was applied in the inventory management and order quantity adjustment as it will reduce logistics cost when distributing products to customers, shop owners, distributors, and shop staff. The level of user satisfaction was high, with the score at 4.43. The results of system evaluation indicated that this system enhanced the efficiency and accuracy of inventory management. Also, this program helped to reduce excessive stock and inventory cost, and maximized distribution efficiency. The system operated perfectly in terms of what it was designed for; making the work process more convenient, reducing errors and mistakes, and meeting user requirements.

Keywords: inventory management system / inventory management / KK Food Co., Ltd

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