

Running head: INVENTORY MANAGEMENT SYSTEM FOR KOYA NARDZ COMPUTER TRADING

ENHANCING OPERATIONAL EFFICIENCY: A REAL-TIME INVENTORY  
MANAGEMENT SYSTEM WITH QR SCANNER INTEGRATION AND  
POINT OF SALE (POS) FOR KOYA NARDZ COMPUTER TRADING

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## INTRODUCTION

Koya Nardz Computer Trading employs QR Scanner for real-time stock monitoring. The system is built using PHP and JavaScript for the front-end and back-end. The integrated system aims to improve inventory accuracy and efficiency of their business. The researchers aimed to develop a custom inventory management system for Koya Nards Computer Trading. They also envision their business to be one of the reliable brand partners when it comes to resolving any problem that relates with their computer. The project covers several key areas but covers several areas. The objective was to develop an effective, scalable system that improves strategic decision-making and overall operational performance. The system was specifically tailored to meet the needs of Koya Nardz Computer Trading. The data and analytics provided by the new system can support data-driven decision making to optimize inventory planning and positioning. The long-term benefits of improved efficiency, cost savings, revenue growth, and customer retention will outweigh the temporary implementation costs. The study aimed to automate inventory Revolutionary technology and software solutions. The website is designed to help customers with tracking inventory, as well as data analysis. It is intended to reduce manual errors, streamline procedures, and offered real-time data analysis to increase accuracy, efficiency, and cost-effectiveness. The site is designed with an intuitive, responsive user interface. It will be available in English, Spanish, German, French, Italian, Spanish and English. It was designed to be interactive in a way that improves the user experience.

## METHOD

Table 10 represents a database table called "Product Type Table" The table has two bipartisan columns; the first one is ?id? which serves as primary key for each product types of record. The second column ?name? is used for storing the text name or description of specific product type. The code will be designed to process the in and out of the product in the inventory. The system should be able to detect when the product was most most recently sold. The inventory management system was developed by Koya Nardz Computer Trading. It is used for real - time stock monitoring and control. The system is part of the Inventory Management System that belongs to Koya. The inventors assessed the acceptability and overall. quality of the developed inventory system using QR Scanner for real-time monitoring. The following procedures were used to assess the acceptable and overall quality of this system. The results of the procedures were then used to determine the overall acceptability of the system. The system was used to implement on the computing device to perform real ? time stock monitoring and control. The user interface was developed using PHP and JavaScript, providing a web ? based platform for users to interact with the system. The Orders table keeps track of every order and its associated information. The Users Account Table contains columns for storing user information such as id, name, email, contact number and login timestamp. Different test scenarios were conducted, including the ability of the QR code scanner to detect and track products accurately in real time. The Inventory Management System was designed to notify the admin if there is a shortage of a product, enabling timely reordering and enabling product reordering. The system was assessed through the system and software ISO 25010. The developed project was assessed by the system's software and the system itself was assessed for accuracy. The researchers asked their client to test the inventory management system to know if the system is working well with the features provided in it. The inventory system is designed to provide a stable and useful system architecture that combines popular technologies. The researchers developed an inventory management system to efficiently manage the business operations of Mr. The system checks if the stock level of each product is lower

than the specified minimum set by the user. The 'id' column is an integer type and likely serves as the primary key or unique viewpoints for each product record. The 'added\_by' column, an integer, likely references the admin or user ID of the person who has added the product record to the database. The 'edit\_stamp' column (datetime) records the timestamp of the last edit, helping to maintain a log of updates. The Koya Nardz Trading Inventory Management System was designed to be efficient and functional. The system was tested with a series of test cases to determine its suitability. The software specifications are essential to guarantee that the system can be developed and used efficiently. It focuses on assessing if a system provides the right functionality for its intended use and users. It also evaluates the system's performance in monitoring and updating the inventory. It then tests the system's operational functionality. The functional suitability, performance efficiency, and usability of the system were evaluated through test cases. The researchers conducted various testing methods to validate the capabilities of the system. The database management system (DBMS) used by the researchers is MyAdmin. The flow includes components for managing records and facilitating consumer engagement, such as Facebook chat. The system is designed to be used for short time periods only. It consists of two fields; one is named as 'the identifier column' while another field is called 'the QR code'. The system was designed to streamline various aspects of inventory management. It allows proactive notifications to be sent out when stock of a product is running low or when it is nearing a threshold. The system was scored based on a Likert Scale, where 4 is the highest and 1 is the lowest rating. The finished order, transaction, and receipt are returned to the customer after being supervised by the cashier. The user's name, number, email, and physical addresses are all saved under varchar so they can be easily edited.

## RESULTS

The inventory system at Koya Nardz Computer Trading is all about making stock management way easier and more organized for the company. There are two systems made by the researchers: the user's side for the point of sale and the admin side for inventory management. The system is available for both the admin and user sides of the platform. It received a score of 4 which corresponds to a rating of 'Highly Acceptable', 86.7% of the respondents Explored the features of the system. Koya Nardz Computer Trading uses QR codes and a QR homophobicscanner in its inventory management system. The system for the admin's side was capable of handling features such as displaying data analytics of the sales report, adding, and removing of products, seeing the account of the customer's specially for handling customer's passwords. Using QR technology makes the whole inventory management process smoother and more effective for Koya Nards Computer Trading. This chapter presents all the findings in the research study, including all the system description, architecture, interface, and development method. The inventory system helps Koya Nardz Computer Trading manage their stock efficiently and effectively. The system for the user's side was capable of handling features such as registering an account to login in the e-commerce website., shop for any computer related product. It received a score of 4 which corresponds to a rating of 'Highly Acceptable', from 86.7% of the respondents. It is designed to automate a lot of the inventory handling stuff, which means fewer mistakes. The project aimed to develop an enhance operational efficiency, a real-time inventory management system with QR Scanner integration for Koya Nardz Computer Trading. Thirty respondents participated in the evaluation. The system received a score of 4 which corresponds to a rating of 'Highly Acceptable', from 84.43% of the respondents. It received a Score of 4 from 81.65% of respondents and 20.82% of Respondents rated the system 'Very Acceptable.' The Koya Nardz e-commerce platform is organized and easy to use for customers. To create a bundle you can scan the individual products you want to group and register it. The test result for the functional suitability, performance efficiency and usability of the developed system are presented in the tables below. The system allows admins

to monitor customer feedback, facilitating viewpoints on the best products for sale. It also enables admins to track all the stuff bought and detailed info about the system. The developed inventory management system was created using PHP and JavaScript. The modules were developed sequentially, encompassing tasks such as product receiving, product sales, stock reports, inventory reports, and data analytics. Using QR code integration, admins can streamline inventory management by leveraging product addition and addition. It also includes generating inventory report of the products and updating inventory of the store. The system was launched using Hostinger web paralleledhosting during the cutover phase, enabling accessibility for all users with internet connections.

## **DISCUSSION**

Inventory Management System with QR Scanner Integration and Point of Sale (POS) For Koya Nardz Computer Trading. The system was designed and developed as planned, accustomed to the needs and requirements of the company. The developed system received a rating of Highly Acceptable in terms of its capacity to manage an allotted number of products. The product management team finalizes all necessary modules for automating the inventory at Koya. NardZ Computer Trading The user's side for the e-commerce platform for Koya, enhances customer experience.