Chap2  
SOO2 (LOCAL)

According to Atilano-Tang et al. (2023), effective inventory monitoring requires a combination of proper technology, trained workers, and efficient procedures. The research focuses on the integration of computer-based systems that are capable of providing real-time tracking of inventory, that can prevent stock out and overstocking.

On the other hand, Noguerra, P. (2023), implements the use of stock-in and stock-out management, item monitoring, and inventory reporting. stock-in feature allows you to manage and update your inventory stock when you restock inventory items from the suppliers. The stock-out feature allows users to record stock records which then automatically updates the inventory database and reflects the current stock levels. Implementing these features  reduces human mistakes, maintains the up-to-date records of inventory, and enhances overall efficiency of the system.

Meanwhile, Odasco et al. (2023) identified automation as a key feature of their system, enabling efficient requesting, recording, and updating of inventory records. The system aims to make inventory management at the University of Baguio more efficient, accurate, and transparent. It helps reduce repeated questions and problems with manual processes by managing non-consumable items and tracking accountability transfers. These features are relevant to modern systems as they improve the process.

As concluded by Anade, M. A., et al. (2023) Effective inventory management is crucial for organizations to execute smooth operations, minimize costs, and deliver quality services in today's rapidly evolving world. Educational institutions like universities rely heavily on efficient inventory monitoring systems to support their daily functions. Their research study aims to prepare and design the inventory management system in the supply office of Leyte Normal University, recognizing the importance of an optimized system to support the institution's overall objectives.

A system called Integrated Inventory Management and Asset Tracking System which also has a variety of functionalities like automated reporting, and procurement status. These functionalities solve actual real-world issues like redundancy of information, unorganized records, and slow asset tracking. The developers aim to enhance performance, precision, and operation efficiency. Bantayan et al. (2023),

The e-AIMSS of Ahmad, C. (2023), in Camarines Norte, an automated inventory not only captured excessive papers and paperwork, minimized waiting time and turnaround time of the inventory process, but also simplified, and streamlined the long procedures of inventory. Having coherent, standardized, updated, accessible, and printable data generated from the automated system aids in the decision-making process.

SOO3 Local

Gamido, M. (2022), discovered that online monitoring systems that handle procurement and inventory were very useful and easy to use. The majority of individuals gave the system a good rate of 4.72, validating the fact that it is useful and not difficult to use. The users loved this system because they could run their procurement plans using a web browser. The consumers were satisfied with the system because it was easy to work with, learn, and not experience any issues. It has enabled one to do a lot of work at once rather than on a monthly basis because it saves time spent batching manually and preparing papers.

Likewise, Tanaman, M. (2023) Achieved both IT professionals and end-users evaluated the system features related to procurement and monitoring activities. All the users were content and gave it high ratings of 4.61 and 4.44. The system simplifies purchasing and monitoring processes a lot. Since the system facilitates real-time monitoring, easy online request, straightforward recording of work, it was well received regarding procurement and inventory management.

With automation, Lagmay et al. (2024), enhanced data collection, authorization, and reporting in order to prepare PPMPs. HTML, CSS, Bootstrap, and PHP Laravel are applied in web technology to enable an easy-to-use, well-structured user interface with login, user administration, real-time monitoring, and printing of reports. Laravel is responsive and allows for a system that can handle growth in users. It assists in quicker identification of errors and verifying if orders are placed in good time, keeping procurement management secure and functional. Access to the software on any computer makes it convenient, along with the ability to generate reports and simplify communication.

The BSIT students from La Consolacion University of the Philippines have developed a web-based inventory system designed to streamline the organization and sorting of inventories. the system was rated "Very Good" in areas such as appropriateness, recognizability, learnability, and operability, which means that the users identified the system as being easy to recognize as appropriate to their needs, easy to learn, and easy to operate. Furthermore, the usability features of the system such as ease of use and control also play a part in the overall positive experience of the user, making it efficient and usable for the inventory monitoring activities. Jesalva et al. (2024)

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