



Software Design

Progress Report No. 1

---

## Design Reviews

---

*Submitted by:*

Aquino, Jester J.  
Calica, Ljay L.  
Elpedes, Glen Jorge A.  
Enverzo, Kyle Andrey D.  
Gabuyo, Ivan Love D.  
Luminario, Venice Lou Gabrielle M.  
Tan, Charles Dominic S.

*Instructor:*

Engr. Maria Rizette H. Sayo

November, 29, 2025

## I. Objectives

- Manage the inventory levels of clothing items including size, color and style variations.
- We want to cut down on errors. I also want to improve efficiency by automating the inventory monitoring the stock adjustments and the product recording.
- We design an easy to use system interface. The staff use the system interface to update product information and to check stock availability.
- We provide time inventory data. The inventory data helps the team make decisions, for restocking, sales planning and product management.
- To make reports, on the stock levels the sales performance and the item movement. I use the reports, for business analysis. •To ensure secure and reliable data storage so that inventory information remains protected and accessible only to authorized users.

## II. Results

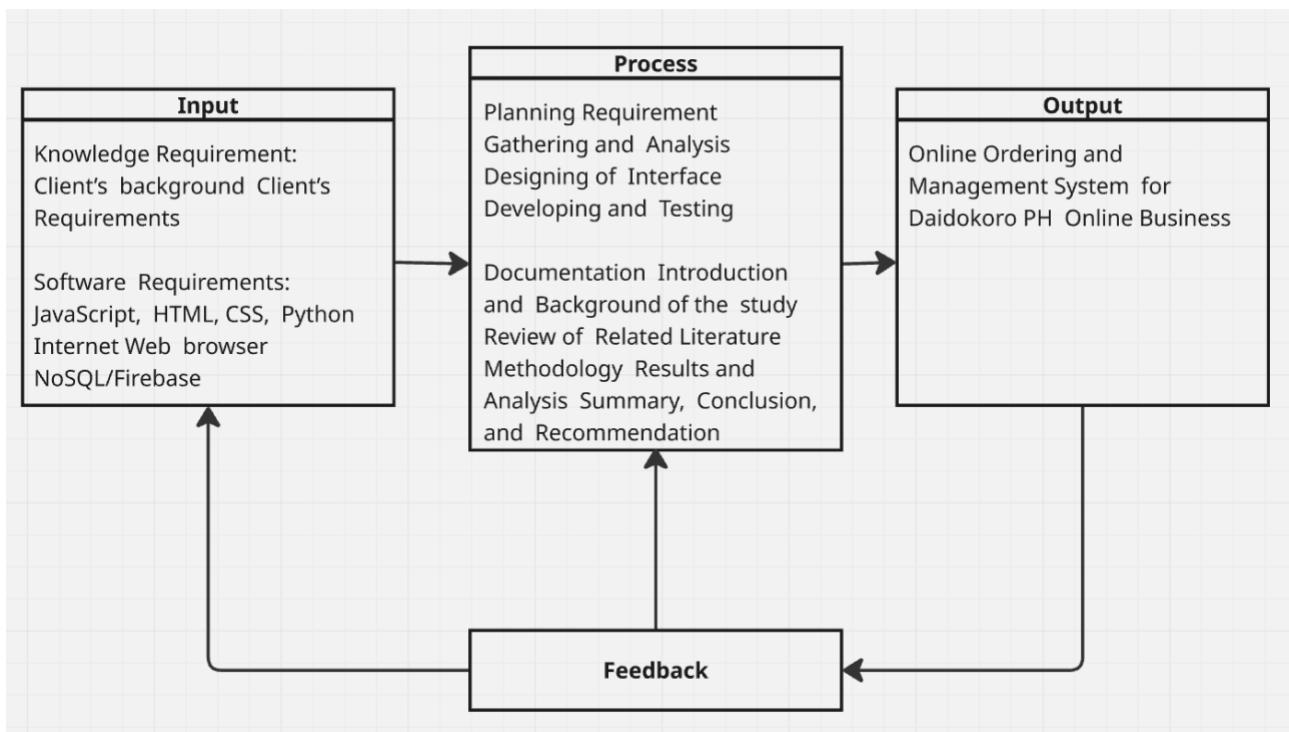


Figure 1 Screenshot of program

The three components of the conceptual framework are the input, process, and the output. The input comprises the various specifications that would be included in the system like the client's profile. The knowledge requirements are the initial prerequisite, which comprise the requirements and background of the client. The software needs, which include several computer languages including JavaScript, HTML, CSS, and Python. The Internet Web browser is the next method of access. Finally, the database will be utilized, which is Firebase. The process, which includes the planning, developing, and software testing and programming. Additionally, it includes the design review, which indicates whether the Developers fulfill their clients' and customers' expectations.

Additionally, it comprises appropriate paperwork since experts frequently carry out this procedure for the purpose of additional investigation and citation. The output section comes last since it focuses on the approval of the create and develop software that would move forward after client and customer approval. to the program's implementation and system upkeep. Reviews are the comments regarding the system.

## Conclusion

The deployment of this inventory management system is aimed at increasing productivity, accuracy, and decision-making in the apparel stock operations through the automated inventory monitoring, stock changes, and product recording at the same time reducing errors. Its user-friendly interface allows the staff to easily change the product information and check the availability of stock in various sizes, colors, and styles. In order to support the making of good judgments in restocking, sales planning, and the business analysis, the system provides a real-time inventory information and also generates detailed reports on stock levels, sales trends, and item movement. The end result of secure and trustworthy data into storage is improved inventory control and more efficient to a business operations as it ensures that all inventory data is protected and then only accessible to authorized users.

## References

- [1] Schmidt, J., & Simchi-Levi, D. (2020). Operations and supply chain management: The core. McGraw-Hill Education. Provides concepts on inventory control, stock-level monitoring, and decision-making using real-time data.
- [2] Wild, T. (2017). Best practice in inventory management (3rd ed.). Routledge. Discusses strategies for reducing inventory errors, automating stock processes, and improving efficiency.
- [3] Bendlrath, R., & Philipp, M. (2021). Data security in enterprise resource planning systems. *Journal of Information Security Management*, 15(2), 84-97. Explores secure data storage, access control, and safeguarding sensitive inventory information.
- [4] Adebayo, O. A., & Ogunleye, O. O. (2019). The role of automated inventory systems in improving business productivity. *International Journal of Business and Technology*, 8(3), 112-121. Examines automation of stock adjustments, system interfaces for staff, and the impact on business performance.