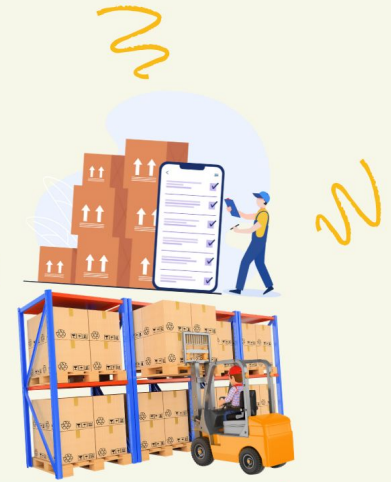


# INVENTORY MANAGEMENT SYSTEM

There are many inventory management systems available, HOWEVER most systems fall short of the ability to upload your own warehouse layout and are downloadable software created specifically for a business. Our inventory system is a service that allows for businesses to upload their own warehouse and access from many devices on the web.



University of Huddersfield | Software Engineering

## INTRODUCTION

This inventory system is a web-based solution focusing on a dynamic layout tailored to each warehouse layout. Featuring seamless barcode scanning integration to easily sort and find items in each warehouse, it enhances accuracy and efficiency in warehouse management. With a user-friendly approach and key focus on precision, our project aims to revolutionize inventory management practices, providing a streamlined and flexible solution for modern businesses. This web based system will work for any business with a warehouse.

## LANGUAGES

Front-End: HTML | CSS  
 Javascript Back-end: PHP  
 Python | Node.js DBMS: SQL  
 Mysql

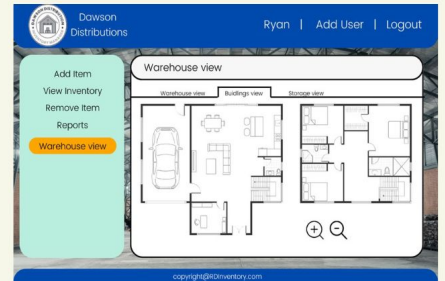
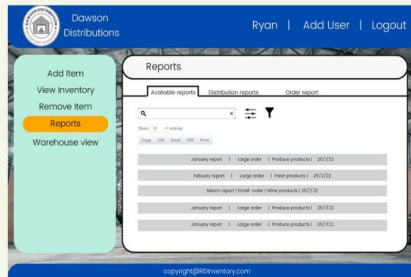
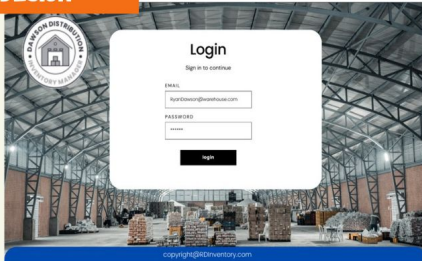
## METHODOLOGY

Our methodology involves iterative development, utilizing peer feedback for continuous improvement. The system is built using extensive study of pre-existing systems and research and literature of effective inventory management, with a focus on modular design and frequent testing to ensure both adaptability and reliability in various warehouse settings.

## RESULTS

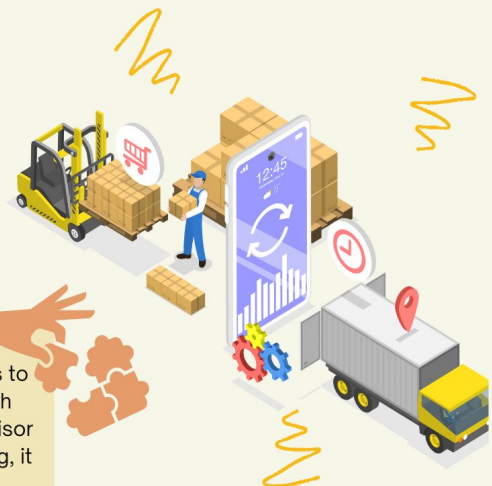
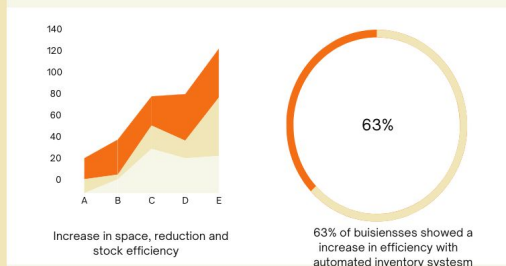
The final result will be a system that revolutionizes inventory management across industries. Easily distributable, this digital solution to support businesses to streamline operations, enhance accuracy, and adapt to dynamic market demands. The useful and scalable nature of the system ensures that organizations of all sizes can optimize their inventory processes, with efficiency and cost-effectiveness in the ever-evolving business landscape.

## DESIGN



## ANALYSIS

Digital inventory shows massive benefits: a 30% boost in data accuracy, 25% reduction in space consumption, and a 35% increase in stock use efficiency. These statistics detail a significant impact on precision, warehouse efficiency, and user satisfaction, showcasing the advantages of advanced inventory management practices.



## CONCLUSION

Our system is a helpful tool for businesses to organize their inventory. It will be made with feedback from peers and a project supervisor for full optimisation. With barcode scanning, it helps businesses manage their items accurately and easily, making the process smoother in different kinds of warehouses. This system can be distributed as a service able to adapt to the existing structure of the business.

<https://www.netstock.com/blog/the-ultimate-list-of-inventory-management-statistics/>

