

# INVENTORY MANAGEMENT SYSTEM FOR RETAILERS USING CLOUD

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## LITERATURE SURVEY:

There is a number of Inventory Management System available in the market. After doing my research, I have come to know that most of them are limited to few products. Some others are lacking in good UI. Marketing points are not much focused on increasing sales. Most of them are not using the cloud computing concept but we are trying to develop such a system that is for everyone rather than for only big companies or for a small organization. Most of them are expensive to use and their maintenance is generally not cheap. Our system is Pay-as-per-Use.

Some of the famous available cloud-based management systems are

- ZOHO inventory
- Sage x3
- InFlow inventory
- Fishbowl
- Cin7
- Sortly
- Trunk
- Netstock
- Wasp
- NetSuite etc.

These were the some of the cloud-based systems currently available in the Market. In project point of view, we are going to develop a better inventory system for retailers using cloud.

S.no	Title	Author	Year	Methodology	Pros and Cons
1.	Inventory management for retail companies: A literature review and current trends.	Cintha Vanessa Muñoz Macas, Jorge Andrés Espinoza Aguirre, Rodrigo Arcentales-Carrión Mario Peña	March, 2021	They focused on solving all the retail issues that happened from 2015 to 2019 through different systems and software.	Pros: They addressed almost 22 issues that retailers faced. Cons: All the software and methodologies they suggested were not cost effective and couldn't be used by small scale retailers.
2.	Inventory decisions on the transportation system and carbon emissions under COVID-19 effects: A sensitivity analysis	Abu Hashan Md Mashuda, Sujana Miah, Yoel Dar yantoc, Ripon K. Chakraborty, S.M. Mahmudul Hasan, Ming-Lang Tseng	September, 2022	This study investigates how intensification of the COVID-19 affects the retailer's profit. • Study about the interrelation of vaccination and covid outbreak in transportation. • This model provides the decision making on efficient uses of green technology.	Pros: This study considers product deterioration, time-dependent holding costs, price-dependent demands, and carbon emissions from vehicle operation and intends to establish a harmonious relationship among these attributes. Cons: This study failed to show how COVID-19 affects customers' purchases instead of the effects on the transportation system.
3.	Two-stage inventory management with financing under demand updates	Tianyun Li, Weiguo Fang, Melike Baykal-Gürsoy	February, 2021	The paper presents a recourse approach to solve the two-stage optimization problem and derive the optimal inventory/financing policies	Pros: This research incorporates the financial and operational decisions into demand updates, and brings new managerial results and insights. Cons: due to the complexity of the objective function,