# Sage Plagarism Report

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**Word Count: 794**

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Store management software for managing store inventory.
The store has a collection of many items that is difficult to manage.
Nowadays, all stores store their digital data with ease.
By using simple but useful software like this, it will be very easy for employees to find objects.
When there are many items, it can be difficult to remember how many items are in stock and what they cost.
The software is user- friendly and will help employees keep track of items in their inventory.
Features and Functionality:
This software stores the name of product, total quantity in stock, their price and the date it got added or updated.
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Add new items: We can easily add a new item to the list of items with its name, price, quantity and date.
Add new items: We can easily add a new item to the list of items with its name, price, quantity and date.
Update an item: We can change the amount / quantity of product, or increase / decrease price of product.
Buy an item: We can buy item from other vendors or manufacturer if we run out of stock.
It will increase the quantity of item in the list.
Sell an item: We can sell item to customer.
It decrease the quantity from stock and increases bank balance of store.
View items: It will display all the items in the inventory.
Remove an item: It will remove an item from the inventory.
All the item's information are stored in proper format in a file using file handling.
All the changes made in the software are updated in a log file separately.
Implementation Detail:
In this software, I have implemented basic concepts of java programming language.

I used four principles of OOP ie.
Inheritance, Polymorphism, Abstraction and Encapsulation.
I used list and arraylist library to work with items and manipulate those data.
I have also used some other concepts like File handling and exception handling.
Main file :
Items class file
Store Manager Class
Store Manager Class
Store class
Output class file
File Manager class
File Manager class
Log Manager Class
Store management software is designed to allow store staff to keep track of their inventory.
The software is console-based and easy to use.
It contains all the basic needs for management.
This software offers features like adding items to files, updating items, buying/selling items, viewing items, and removing items from the list.
It uses many basic programming concepts such as OOP, file handling, and exception handling.
It uses many basic programming concepts such as OOP, file handling, and exception handling.
It uses inheritance to share variables and methods between subclasses and parent classes.
It uses getters and setters to get or set the value of a private variable in the package.
In this software, data is stored in a file using file management.
All changes made to the software are accurately stored in the log files.
This software will provide all the basic feature needed for a management software.
This software helps any store to increase the productivity of the company and be more efficient.
Employee can manage and keep track of the inventory.
In large store, there are thousands of items to be kept in track.
So, software like these can come in handy.
Challenges and Solution :
While building this project, I faced these problems along the way:
• Handling error and provide clear error message.
• It was difficult to add or fetch data from the file.
• Ensuring date validation to maintain a proper log file.
• ConcurrentComodification exception while removing item from a list while iterating over it.
• As the software is console-based, it was really hard to make a good user-friendly system.
• I created a menu with clear options for features to make it more user-friendly.
• I used regular expressions to validate the user’s input.

• I included clear and detailed error message to help user guide through problem and help me during debugging.
• I solved the ConcurrentComodification exception by changing the iteration loop from for-each to traditional for loop.
In short, we can create mini console-based store management software.
In this software, we have included many features and made it very user-friendly.
I also store all updates in a log file for easy viewing of future changes.
This project helped me understand many Java topics very well.
OOP, file management, and exception handling are some of the most important concepts to have in programming.
OOP, file management, and exception handling are some of the most important concepts to have in programming.
This project covers this topic and makes me understand it better.