

**INVENTORY MANAGEMENT SYSTEM FOR
RETAILERS**

HX8001

**Professional Readiness for Innovation,
Employability and Entrepreneurship**

PROJECT REPORT

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BONAFIDE CERTIFICATE

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INTERNAL EXAMINER

EXTERNAL EXAMINER

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INTRODUCTION

Retail inventory management is the process of ensuring you carry merchandise that shoppers want, with neither too little nor too much on hand. By managing inventory, retailers meet customer demand without running out of stock or carrying excess supply.

1.1 PROJECT OVERVIEW

In practice, effective retail inventory management results in lower costs and a better understanding of sales patterns. Retail inventory management tools and methods give retailers more information on which to run their businesses. Retailers can access their accounts by logging into the application.

Once retailers successfully log in to the application they can update their inventory details, also users will be able to add new stock by submitting essential details related to the stock.

1.2 PURPOSE

Retail inventory management works by creating systems to log products, receive them into inventory, track changes when sales occur, manage the flow of goods from purchasing to final sale and check stock counts.

Inventory management helps companies identify which and how much stock to order at what time. It tracks inventory from purchase to the sale of goods. The practice identifies and responds to trends to ensure there's always enough stock to fulfill customer orders and proper warning of a shortage.

1. LITERATURE SURVEY

2.1 RETAILER INVENTORY STRATEGY BASED ON SYSTEM DYNAMICS SIMULATION

System dynamics (SD) was created during the mid-1950s by Professor Jay Forrester of the Massachusetts Institute of Technology.

The supply chain inventory management aims at meeting customers' demands, reducing inventory cost and increasing enterprise profit. We need place an order and replenish productions when the inventory is under safety stock quantity.

DISADVANTAGE:

One of the disadvantages of this methodology is the development of the system dynamics model of complex systems since an extensive study has to be carried out, so that this system works correctly in the system dynamics model, and not on the contrary, affect the project where the dynamics of the system is being carried out.

2.2 REFERENCES:

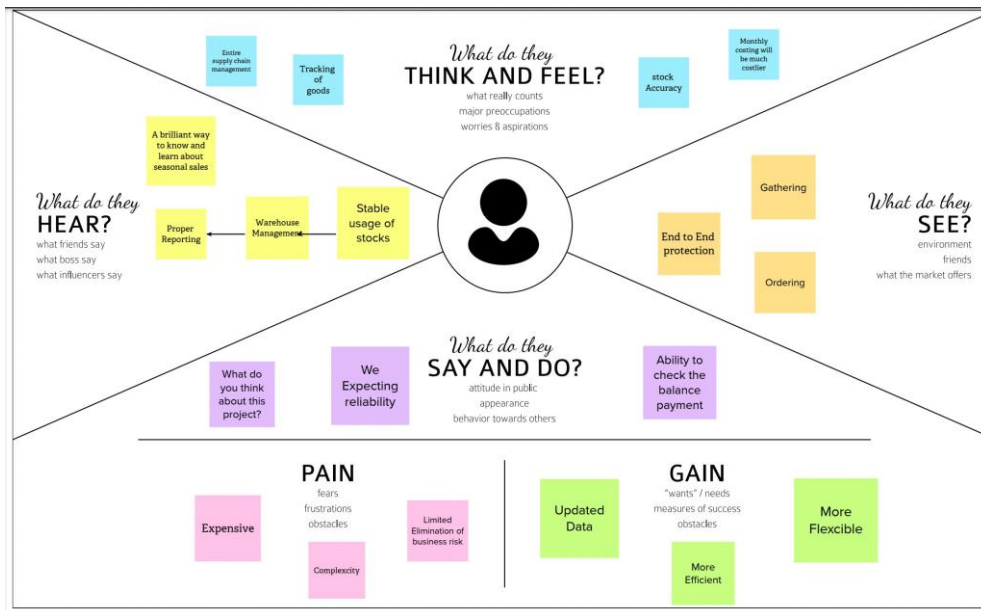
- [1] A. Sapietova and V. Dek 'y's, "Dynamic analysis of rotating machines in ~ msc. adams," Procedia Engineering, vol. 136, no. 143-149, p. 12, 2016.
- [2] T. Rebs, M. Brandenburg, and S. Seuring, "System dynamics modeling for sustainable supply chain management: A literature review and systems thinking approach," Journal of cleaner production, vol. 208, pp. 1265–1280, 2019.

2.3 PROBLEM STATEMENT:

In inventory systems, demand is usually uncertain, and the lead-time can also vary. To avoid shortages, managers often maintain a safety stock. In such situations, it is not clear what order quantities and reorder points will minimize expected total inventory cost. Simulation models can address this question.

2. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS:



3.2 BRAINSTORMING:

Brainstorm

Write down any ideas that come to mind that address your problem statement.

⌚ 10 minutes

SARRAN KUMAR NK

Product Data Should be Maintained

Product Should be Organized According to its Importance

Retailers Should be Able to get All Required Products

Payment Should be Easier For Customers

SUBIN SS

Multiple Payment options

Analyze supplier performance

Quality of Product

Offer & Discounts

SHRIRAM CS

Discounts for the Products Should be Claimed

Delivery of The Product Should be Secure

Stock Checks

Data Privacy of Customers

SANJAY G

Qualities of each product type

which stock sells well and

HIGH SECURITY BY USING SUPPLY CHAIN

GREAT ACCESSING OF ORDERED GOODS

3.3 PROPOSED SOLUTION:

Problem Statement (Problem to be solved) • The retailers generally facing issues in recording the stocks and its threshold limit available.

❖ Idea / Solution description • This proposed system will have a daily update system whenever a product is sold or it is renewed. • The product availability is tracked daily and an alert system is again kept on to indicate those products which falls below the threshold limit. • The application allows the customers to know all the present time available stocks and also when the new stock will be available on the store for them to buy.

❖ Novelty / Uniqueness • Certain machine learning algorithms are used to predict the seasonal high selling products which can be made available during that time. • Prediction of the good selling brand of all certain products based on their popularity, price and customer trust and satisfaction will be implemented. • Notifications will be sent to the retailers if any product that the customers have been looking for is not available.

❖ Social Impact / Customer Satisfaction • The customers will be highly satisfied since the wastage of time while searching for an unavailable product is reduced.

3.4 PROBLEM SOLUTION FIT:

1. CUSTOMER SEGMENTATION(S) - ➤ It is an important marketing tool. ➤ Customer segmentation helps the enterprises increase profit and improve customer service level.

2. CONSTRAINTS - ➤ Constraints include limits on ➤ Raw Materials ➤ Machine Capacity ➤ Work force capacity ➤ Inventory Investment ➤ Storage Space

3. CHALLENGES - ➤ Inconsistent Tracking ➤ Warehouse Efficiency ➤ Inaccurate Data ➤ Changing Demand ➤ Limited Visibility ➤ Manual Documentation ➤ Problem Stock ➤ Insufficient Order Management

4. PROBLEM ROOT CAUSE - ➤ Visibility Problems ➤ Lack of real-time reporting ➤ Inefficiency ➤ Under Stocking ➤ Over Stocking ➤ Lack of trend forecasting

5. YOUR SOLUTION - • Developing a database in that database if the product is in out of stock sending a SMS alerting message • provide a option for graphical view of sales

6. CHANNELS of BEHAVIOUR -1. ONLINE • Alerting the particular person about the stocks limits, either full or empty or even about the reach of a particular limit
2. OFFLINE • Manual Checking • Stock Distribution among the Inventory

4. REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS:

FR-1 Account Creation Created through Email Creation through Github Creation through LinkedIn Creation via Google

FR-2 User Confirmation Confirmation via Email

FR-3 Successful Log in Notification through Email

FR-4 Update inventory details Notification through Email

FR-5 Add new stock Notification through Email

FR-6 Unavailability of stock Alert notification through Email

4.2 NON - FUNCTIONAL RREQUIREMENTS:

NFR-1 Usability - When the account is created in the application , all the details about the stock has to be filled. And when the stocks are no more left the application will get to know this and does the process.

NFR-2 Security - The Application has a very good security , because not everyone can access the application. Only the employees who have the access can only access the application. The Application requires Authentication. Because of this no one can misuse this application.

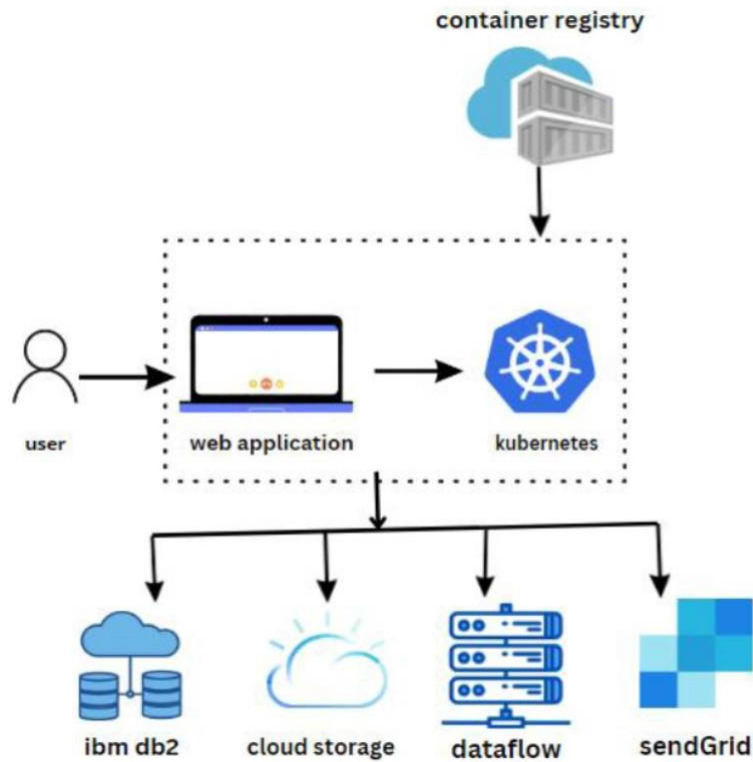
NFR-3 Performance - The products can be tracked by the users. The tracking can enhance the timed deliveries. With the help of this the man power can also be reduced. Emails will be delivered automatically when there is shortage of products.

NFR-4 Availability - Inventory management systems are designed to monitor product availability, determine purchasing schedules for better customer interaction.

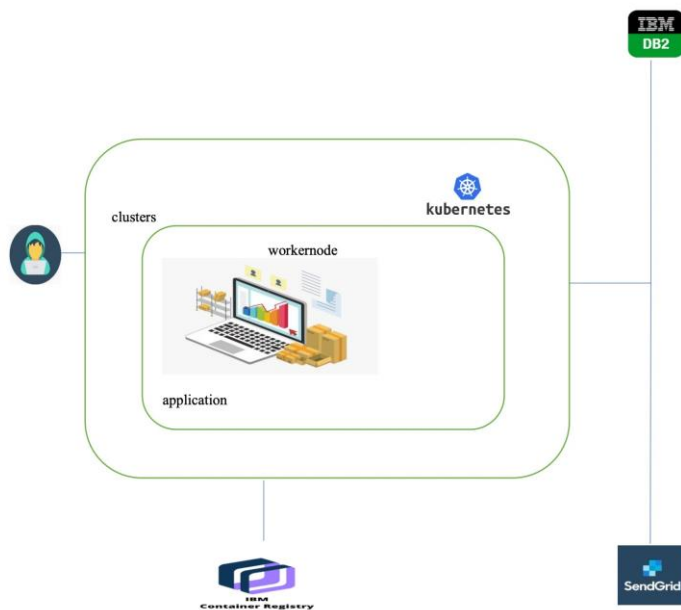
NFR-5 Scalability - Scalability is an aspect or rather a functional quality of a system, software or solution. This proposed system for inventory management system can accommodate expansion without restricting the existing workflow and ensure an increase in the output or efficiency of the process.

5. PROJECT DESIGN

5.1 DATA FLOW DIAGRAM:



5.2 SOLUTION & TECHNICAL ARCHITECTURE:



5.3 USER STORIES:

Customer (Mobile user)

Registration

USN-1 As a user, I can register for the application by entering my email, password, and confirming my password. I can access my account / dashboard High Sprint-1

USN-2 As a user, I will receive confirmation email once I have registered for the application I can receive confirmation email & click confirm High Sprint-1

USN-3 As a user, I can register for the application through Facebook I can register & access the dashboard with Facebook Login Low Sprint-2

USN-4 As a user, I can register for the application through Gmail I can receive confirmation email & click confirm Medium Sprint-1

Login

USN-5 As a user, I can log into the application by entering email & password I can enter into my account High Sprint-1

Dashboard

USN-6 As a user, it displays all top brands and offers of product I can avail the recent offer in sale High Sprint-2 Customer (Web user)

Application

USN-7 As a user, I can register, login and shop the products easily I can access my shopping very soon High Sprint-3 Customer Care Executive

Update Inventory details

USN-8 To keep track of order and availability of stock in inventory I can control the inventory stock correctly High Sprint-4 Administrator

Add new stock

USN-9 To add new products into the application I can provide new trend products in an application for customer needs High Sprint-3 Customer Care Executive

Verify customer feedback

USN-10 To design application that meets user's desires I can satisfy the customer expectations High Sprint-4 Customer Care Executive

Inventory Control

USN-11 To refill the unavailability of stock in inventory I can alert notification through email Medium Sprint-2 Administrator

Performance of Application

USN-12 To make the business process more efficient I can save time, cost to fulfil orders by improving the inventory management High Sprint-4

6. PROJECT PLANNING & SCHEDULING

SPRINT PLANNING & ESTIMATION

Project Tracker, Velocity & Burndown Chart: (4 Marks)

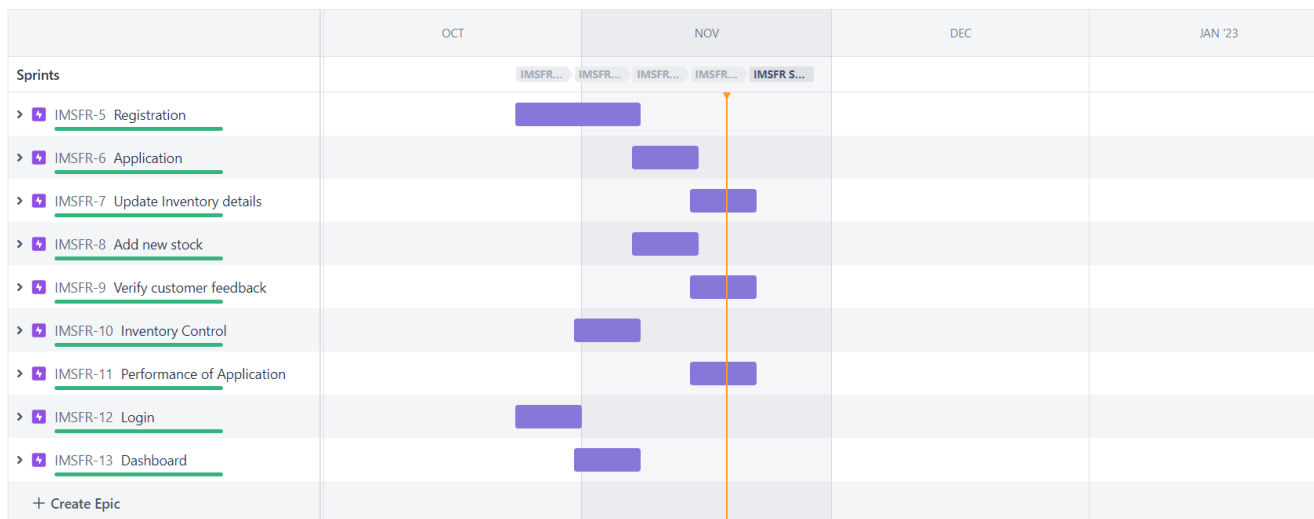
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

REPORTS FROM JIRA:



SPRINT DELIVERY SCHEDULE:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	Low	Sprint-2
Customer (Web user)	Application	USN-7	As a user, I can register, login and shop the products easily	High	Sprint-3
Customer Care Executive	Update Inventory details	USN-8	To keep track of order and availability of stock in inventory	High	Sprint-4
Administrator	Add new stock	USN-9	To add new products into the application	High	Sprint-3
Customer Care Executive	Verify customer feedback	USN-10	To design application that meets user's desires	High	Sprint-4
Customer Care Executive	Inventory Control	USN-11	To refill the unavailability of stock in inventory	Medium	Sprint-2
Administrator	Performance of Application	USN-12	To make the business process more efficient	High	Sprint-4
		USN-4	As a user, I can register for the application through Gmail	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	High	Sprint-1
	Dashboard	USN-6	As a user, it displays all top brands and offers of product	High	Sprint-2

7. CODING & SOLUTIONING:

7.1 FEATURE 1:

OPTIMIZING YOUR INVENTORY

You want to maintain the right amount of inventory required to meet demand, keep logistics costs low, and avoid common inventory issues such as stock outs, overstocking, and backorders.

- **Inventory Forecasting**

A company has a 30-day forecast for cookies. If they sold 43 units over the previous 30 days, the base demand would be 43.

It gives a starting point to show you how you can increase accuracy. You can gather trends like these from your data that may influence demand.

- **Demand Planning**

A grocery store wants to prepare its inventory levels for next year at the end of Thanksgiving. They look at sales, competition, and growth. They can now plan and launch new deals to position themselves as the go-to Thanksgiving destination.

Your inventory may need different optimization and planning. For example, you ordered the exact amount of raw materials. Later on, with variation in supply, you wish you had extra safety stock.

7.2 FEATURE 2:

SECURITY AND BACKUP

You have to make sure that your inventory is safe to be in control of stored goods. You need security for warehouse management as safety and efficiency lead to good performance. To help keep operations running smoothly, ensure you address supply chain and inventory control strategies and have backup plans in place before there is an issue.

8.TESTING

8.1 Test Cases:

Date	16-Nov-22
Team ID	PNT2022TMD26435
Project Name	Inventory Management System for Retailers
Maximum Marks	4 marks

Test case ID	Feature Type	Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result	Actual Result	Status
LoginPage_TC_001	Functional	Home Page	Verify user is able to see the Login/Signup popup when user clicked on My account button		1.Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Signup popup displayed or not	127.0.0.1:5000	Login/Signup popup should display	Working as expected	Pass
LoginPage_TC_002	UI	Home Page	Verify the UI elements in Login/Signup popup		1.Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Signup popup with below UI elements: a.email text box b.password text box c.Login button d.New customer? Create account link e.Last password? Recovery password link	127.0.0.1:5000	Application should show below UI elements: a.email text box b.password text box c.Login button with orange colour	Working as expected	Pass
LoginPage_TC_003	Functional	Home page	Verify user is able to log into application with Valid credentials		1.Enter URL(https://shopnizer.com/) and click go 2.Click on My Account dropdown button 3.Enter Valid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: admin@mail.com password: admin123	User should navigate to user account homepage	Working as expected	Pass
LoginPage_TC_004	Functional	Login page	Verify user is able to log into application with Invalid credentials		1.Enter URL(https://shopnizer.com/) and click go 2.Click on My Account dropdown button 3.Enter Invalid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: admin@m.com password: admin123	Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass
LoginPage_TC_005	Functional	Login page	Verify user is able to log into application with Invalid credentials		1.Enter URL(https://shopnizer.com/) and click go 2.Click on My Account dropdown button 3.Enter Invalid username/email in Email text box 4.Enter Invalid password in password text box 5.Click on login button	Username: shirree password: Testing123678686786876876	Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass
Dashbord	Functional	Dashbord	Check wheather the user can access dashboard		1.Enter the URL and click go 2.Click on DashBoard 3.Access Dashboard		Application should show all the data entered and can able to search the data	Working as expected	Pass
LogoutPage	Functional	Logout Page	Check wheather the user can access the Logout Button		Click on Logout out Button at top right corner and click signout		Application should signout the user and redirect to login page	Working as expected	Pass

8.2 USER ACCEPTANCE TESTING

1. Purpose of Document


The purpose of this document is to briefly explain the test coverage and open issues of the Inventory Management System for Retailers project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

This report shows the number of resolved or closed bugs at each severity level, and how they were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	7	4	5	2	18
Duplicate	1	0	6	0	7
External	2	4	0	1	7
Fixed	12	2	5	20	39
Not Reproduced	0	0	2	0	2
Skipped	0	0	2	1	3
Won't Fix	0	5	2	1	8
Totals	22	15	22	25	84

3. Test Case Analysis

 This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	7	0	0	7
Client Application	50	0	0	50
Security	7	0	0	7
Outsource Shipping	3	0	0	3
Exception Reporting	8	0	0	8
Final Report Output	6	0	0	6
Version Control	2	0	0	2



9. RESULTS:

PNT2022TMID26435

Inventory Management System for Retailers

Team Members

Shriram CS- Team Lead

Sanjay G

Sarran Kumar NK

Subin SS


Login

Email

admin@mail.com

Password

Login



PNT2022TMID26435

Home Customer Category Brand Supplier Product Purchase Orders

Administrator

Inventory

Search:

#	Product/Code	Starting Inventory	Inventory Recieved	Inventory Shipped	Inventory on Hand
1	Product 103 P-1003	20	10	0	30
2	Product 102 P-1002	15	35	3	47
3	Product 101 P-1001	10	25	5	30

Showing 1 to 3 of 3 entries

Previous 1 Next

Customer List

[New Customer](#)Search:

ID	Name	Address	Mobile	Balance	Action
2	George Wilson	2306 St, Here There	2147483647	35,000.00	Edit Delete
1	Mark Cooper	Sample Address	2147483647	25,000.00	Edit Delete

Showing 1 to 2 of 2 entries

[Previous](#) [1](#) [Next](#)

Category List

[Add Category](#)Search:

ID	Category Name	Status	Action
3	Speaker	Active	Edit Delete
2	Random Item	Active	Edit Delete
1	Smartphone	Active	Edit Delete

Showing 1 to 3 of 3 entries

[Previous](#) [1](#) [Next](#)

Brand List

New Brand

Search:

ID	Category	Brand Name	Status	Action
9	Brand 303	Speaker	Active	Edit Delete
8	Brand 302	Speaker	Active	Edit Delete
7	Brand 301	Speaker	Active	Edit Delete
6	Brand 203	Smartphone	Active	Edit Delete
5	Brand 202	Smartphone	Active	Edit Delete
4	Brand 201	Smartphone	Active	Edit Delete
3	Brand 3	Random Item	Active	Edit Delete
2	Brand 2	Random Item	Active	Edit Delete
1	Brand 1	Random Item	Active	Edit Delete

Supplier List

Add Supplier

Search:

ID	Name	Mobile	Address	Status	Action
3	Supplier 103	09789897879	Anywhere There	Active	Edit Delete
2	Supplier 102	094568791252	Over There	Active	Edit Delete
1	Supplier 101	09645987123	Over Here	Active	Edit Delete










Showing 1 to 3 of 3 entries

Previous 1 Next

Product List

Add Product

Search:

ID	Category	Brand Name	Product Name	Product Model	Quantity	Supplier Name	Status	Action
3	Speaker	Brand 301	Product 103	P-1003	20	Supplier 103	Active	  
2	Smartphone	Brand 201	Product 102	P-1002	15	Supplier 102	Active	  
1	Random Item	Brand 1	Product 101	P-1001	10	Supplier 101	Active	  

Showing 1 to 3 of 3 entries

Previous 1 Next

Purchase List

Add Purchase

Search:

ID	Product	Quantity	Supplier	Action
3	Product 103	10	Supplier 103	 
2	Product 102	35	Supplier 102	 
1	Product 101	25	Supplier 101	 

Showing 1 to 3 of 3 entries

Previous 1 Next

Thus ,the project is successfully executed and implemented using python , flask ,HTML ,CSS ,Java Script and with IBM cloud.

10. ADVANTAGES & DISADVANTAGES:

ADVANTAGES:

Saves Time - Paper-based retail inventory management can take a lot of time and effort.

Eliminates Errors - Traditional retail inventory processes can be vulnerable to errors.

Improves Transparency - In the retail industry, the visibility of the real-time status of the various items in the inventory is very critical.

Cost-Effective - Manual inventory control would increase your labor and process costs.

Efficient Stock Counting - If done manually, stock counting is a tedious and error-prone process.

DISADVANTAGES:

Production problem: even though inventory management can reveal to you the amount of stock you have at hand and the amount that you have sold off, it can also hide production problems that could lead to customer service disasters.

Complexity: some methods and strategies of inventory management can be relatively complex and difficult to understand on the part of the staff.

High implementation costs: some inventory management systems can come at a high price because the business needs to install specialized systems and software in order to use them.

Bureaucracy: even though inventory management allows employees at every level of the company to read and manipulate company stock and product inventory, the infrastructure required to build such a system adds a layer of bureaucracy to the whole process and the business in general.

The control of inventory is complex because of the many functions it performs. It should thus be viewed as a shared responsibility.

11. CONCLUSION

The project inventory management for retailers has been successfully implemented by using python, flask, html, css , Java script and the database created by using IBM db2 and also successfully executed and implemented.

11. FUTURE SCOPE

The scope of an inventory system can cover many needs, including valuing the inventory, measuring the change in inventory and planning for future inventory levels. The value of the inventory at the end of each period provides a basis for financial reporting on the balance sheet. Measuring the change in inventory allows the company to determine the cost of inventory sold during the period. This allows the company to plan for future inventory needs.

12. APPENDIX

SOURCE CODE:

```
<html>
<body>
body>.container {
    height: 95%;
    width: 100%;
}
body>.container {
display:flex;
    flex-direction:column;
    align-items:center;
    justify-content:center;
}
```

```

        text-shadow:2px 2px 5px #000;
    }
</style>

$url = 'C:\Users\George\Documents\HTML\bg.jpg';

?>

</body>
</html>
<h1 class="text-center my-4 py-3 text-light" id="title">Inventory
Management System for Retailers</h1>
<h1 class="text-center text-light" id="title">Team Members</h1>
<h3><ul>Shriram CS- Team Lead</ul>
<ul>Sanjay G</ul>
<ul>Sarran Kumar NK</ul>
<UL>Subin SS</UL></h3>
<div class="col-lg-4 col-md-5 col-sm-10 col-xs-12">
    <div class="card rounded-0 shadow">
        <div class="card-header">
            <div class="card-title h3 text-center mb-0 fw-
bold">Login</div>
        </div>
        <div class="card-body">
            <div class="container-fluid">
                <form method="post" action="">
                    <div class="form-group">
                        <?php if ($loginError) { ?>
                            <div class="alert alert-danger
rounded-0 py-1"><?php echo $loginError; ?></div>
                        <?php } ?>
                    
```

```

        </div>
        <div class="mb-3">
            <label for="email" class="control-label">Email</label>
            <input name="email" id="email"
type="email" class="form-control rounded-0" placeholder="Email
address" autofocus="" value="<?= isset($_POST['email']) ?
$_POST['email'] : " ?>" required>
        </div>
        <div class="mb-3">
            <label for="password"
class="control-label">Password</label>
            <input type="password"
class="form-control rounded-0" id="password" name="pwd"
placeholder="Password" required>
        </div>
        <div class="d-grid">
            <button type="submit"
name="login" class="btn btn-primary rounded-0">Login</button>
        </div>

```

```

        </form>
    </div>
</div>
</div>
</div>
<script>
    window.watsonAssistantChatOptions = {
        integrationID: "a0bcf8f7-130d-47f5-8833-9ed940152ede", // The ID
of this integration.
        region: "us-east", // The region your integration is hosted in.
        serviceInstanceID: "ba43ef63-7d1d-4699-8f58-8c412b0422f3", // The
ID of your service instance.
        onLoad: function(instance) { instance.render(); }
    };
    setTimeout(function(){
        const t=document.createElement('script');

```

```
t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" + (window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";  
document.head.appendChild(t);  
});  
</script>
```

GITHUB & PROJECT DEMO LINK:

GITHUB - <https://github.com/IBM-EPBL/IBM-Project-149-1658213402>

PROJECT DEMO LINK - <https://drive.google.com/file/d/1foGyVeU6Payn-rYmRZLwZQ8JPfpZDP1Q/view?usp=drivesdk>