

PROJECT REPORT
INVENTORY MANAGEMENT SYSTEM FOR RETAILERS
TEAM ID: PNT2022TMID23162

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1. INTRODUCTION

1.1 PROJECT OVERVIEW

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.

1.2 PURPOSE

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. Applications have been developed to help retailers track and manage stocks related to their own products. The system will ask retailers to create their accounts by providing essential details. Retailers can access their accounts by logging into the application.

2.LITERATURE SURVEY

2.1 EXISTING PROBLEM

- It is difficult to maintain important information in books.
- More manual hours need to generate required reports.
- It is tedious to manage historical data which needs much space to keep all the previous years ledgers, books etc.
- Daily transactions are to be entering into different books immediately to avoid conflicts which are very difficult.

2.2 REFERENCES

1. Abramovitz & Modigliani, Franco (1957), "Business Reasons for Holding Inventory and Their Macro Economic Implications", Problems of Capital Formation, Studies in Income and Wealth, Vol. 19, NBER, pp. 495-511.

2. Anichebe, N. A. & Agu, O. A. (2013). Effect of Inventory Management on Organizational Effectiveness. *Information and Knowledge Management*, vol.3, iss.8, pp. 92 – 100.
3. Chadda, R.S (1964), "Inventory Management in India", Allied Publishers. 4. Capkun, Vedran, Hameri, Ari-Pekka & Weiss, Lawrence A. (2009). On the relationship between inventory and financial performance in manufacturing. *International Journal of Operations & Production Management*, vol.29, iss.8, pp.789–806.
5. Edwin Sitienei, Florence Memba(2015-16) " The Effect of Inventory Management on Profitability of Cement Manufacturing Companies in Kenya: A Case Study of Listed Cement Manufacturing Companies in Kenya" *International Journal of Management and Commerce Innovations* Vol. 3, Iss. 2, pp. 111- 119.
6. Eneje, B. C., Nweze, A .U. & Udeh, A. (2012). Effect of Efficient Inventory Management on Profitability: Evidence from Selected Brewery Firms in Nigeria. *International Journal of Current Research*, vol.4, iss.11, pp.350-354.
7. Gaur, Jighyasu & Bhattacharya, Sourabh. (2011). The relationship of financial and inventory performance of manufacturing firms in Indian context. *California Journal of Operations Management*, vol. 9, iss.2, pp.70–77.
8. Gaur, V., Fisher, M. & Raman, A. (2005)." An econometric analysis of inventory turnover performance in retail services". *Management Science*, vol.5,iss.2, pp.181–194.
9. George, P. V (1972), "Inventory Behaviour and Efficacy of Credit Control", *Anvesak*, No.2, Vol.II, 1972, pp. 168-175. |
10. Krishnamurthy K., "Private Investment Behaviour in India: A Macro Time Series Study", *Arthaniti*, January 1964.

11. Krishnankutty, Raveesh. (2011). Panel data analysis on retail inventory productivity.
The Economic Research Guardian 1(1),pp.16–23.
12. Krishnamurthy S. & Sastry D.U.,inventories in Indian Manufacturing, Institute of Economic Growth..., Books Ltd., Mumbai, 1970; and Investment and Financing in Corporate Sector in India, Tata McHill publishing Company, New Delhi, 1975.
13. Lal, A.B (1981), "Inventory Models and Problems of Price Fluctuation", Shree Publishing House, New Delhi, 1981. |
14. Lambrix, R.J and Singhvi, S.S (1979), "Managing the Working Capital Cycle", Financial Executive, June 1979, pp. 32-41.
15. Lieberman, M.B. & Demeester, L. (1999). Inventory reduction and productivity growth: Linkages in the Japanese automotive industry. Management Science, vol.45, iss.4, pp.466–476.
16. Madishetti, Srinivas & Kibona, Deogratias. (2013). Impact of inventory management
on the profitability of SMEs in Tanzania. International Journal of Research in Commerce & Management, vol.4,iss.2, pp.1–6.
17. Mishra (1975), "Problems of Working Capital with special reference to selected Public Sector Undertakings in India, Somiya Publications Private Limited, 1975.
18. NCAER, Structure of Working Capital, New Delhi, 1966.
19. Nyabwanga, Robert Nyamao & Ojera, Patrick. (2012). Inventory management practices and business performance for small scale enterprises in Kenya.
KCA
Journal of Business Management, vol.4,iss.1, pp.11–28.

20. Panigrahi, Ashok K. (2013). Relationship between inventory management and profitability: An empirical analysis of Indian cement companies. Asia Pacific Journal of Marketing & Management Review, vol.2,iss.7, pp.107–120.
21. Pradeep Singh(2008),” Inventory and Working Capital Management- An Empirical Analysis”, The ICFAI Journal of Accounting and Research, Vol.VII, NO.2, pp.5373

2.3 PROBLEM STATEMENT DEFENITION :

Current system is a manual one in which users are maintaining ledgers, books etc to store the information like suppliers details, inwards, deliveries and returns of items in all godowns, customer details as well as employee details. It is very difficult to maintain historical data. Also regular investments need to purchase stationary every year.

3.IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS:

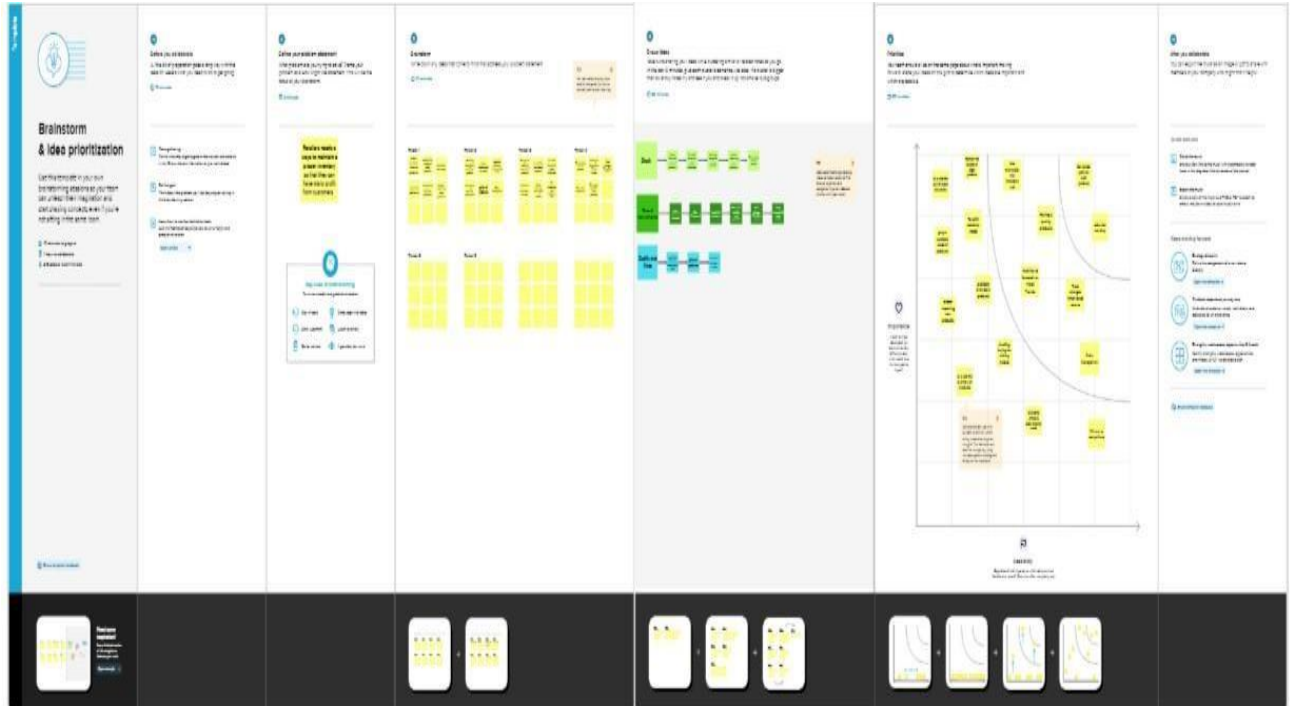
An empathy map is a collaborative tool teams can use to gain a deeper insight into their customers. Much like a user persona, an empathy map can represent a group of users, such as a customer segment. The empathy map was originally created by Dave Gray and has gained much popularity within the agile community.



3.2 IDEATION AND BRAINSTORMING :

Ideation is the process of forming ideas from conception to implementation, most often in a business setting. Ideation is expressed via graphical, written, or verbal methods, and arises from past or present knowledge, influences, opinions, experiences, and personal convictions.

Ideation is often closely related to the practice of brainstorming, a specific technique that is utilized to generate new ideas. A principal difference between ideation and brainstorming is that ideation is commonly more thought of as being an individual pursuit, while brainstorming is almost always a group activity.



3.3 PROPOSED SOLUTION :

A. Problem Statement (Problem to be solved):

- Lack of inventory visibility.
- Inefficient Inventory Management Process.
- Keeping up with or Software.
- Lack of trend forecasting.
- Sometimes human errors may occur.
- There is no proper guidance for customers while shopping in online.

/ Solution description:

- Invest in relations with suppliers.
- Maintaining proper stock.
- Guiding the customers along the path to purchase things.
- Build strong relationship between the customers and salesmen.
- Audit yourself.

C. Novelty / Uniqueness :

- Real – time inventory tracking and values.
- Reorder points & low stock alerts.
- Improvement in productivity and Efficiency.
- Balanced Supply and Demands.
- There should be proper accounting and physical controls.

D. Social Impact / Customer Satisfaction :

- Inventory Management practice can lead to an enhanced competitive and improved organizational performance.
- It helps to maintain customer satisfaction when it comes to product return, because it is damaged or dead on arrival, and it is still under warranty, so the customer is happy.

E . Business Model (Revenue Model) :

The Business model helps to determine the optimum level of inventories and can be maintained in production process, managing frequency of order, deciding on quality of goods or raw materials to be stored, also tracking flow of supply of raw materials and goods.

F . Scalability of the Solution :

This can be developed for scalable product or goods by using sensors& tracking device for transmitting the data of products through Wireless Sensor Network and Analysing the data in cloud and operation is performed using data feeded to chat bots.

3.4 PROBLEM SOLUTION FIT :

A. CUSTOMER SEGMENTS

- Retailers who struggle to maintain and manipulate the inventory to avoid unavailability of stocks in their store.

B. PROBLEMS/PAINS

- Lack of knowledge among retailers about management of retail shop.
- Improper importing of products.
- Lack of knowledge to behave with customer.
- To selling a expired products.
- Improper maintenance of products

C. TRIGGERS TO ACT

- Hearing about innovative technologies and effective solutions.
- By seeing surrounding retailers who already using the application to manage the inventory.

D. EMOTIONS: BEFORE / AFTER

- Mental frustration due to insufficient of product.
- Follow the techniques to prevent the out of stock product and manage the customer

E. AVAILABLE SOLUTION

- To maintain the records of stock product
- Increase the man power or employees
- Alarm system to give alert message about the inventory or stock of the product to retailers.

F. CUSTOMER CONSTRAINTS

- Avoid the overflow of product.

- Avoid the out of stock situation.
- Maintain the records of stock product.
- Able to forecast on track trends

G. BEHAVIOUR

- Ask suggestion from surrounding retailers and implement the recent technologies for inventory management.
- Consumers more time for checking the stock of product.
- Searching for an alternative solutions for existing solution

H. CHANNELS OF BEHAVIOUR

- ONLINE:

Using different platform/social media to describe working and uses of inventory management system

- OFFLINE:

Establishing the awareness among retailers about the application or software of the device

I.PROBLEM ROOT CAUSE

- Due to import the product improperly.
- Due to overflow the product (i.e) available of same product.
- Due to illegal activities or theft the product

J. SOLUTION

- Creating a software for managing the inventory by using cloud database.
- Information about stock of product should be stored in the cloud database
- Database is connected to retail shop owner's device
- An alert message will be set to the shop owners device through Email , when the stock of the product is about to end or empty.

4.REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS :

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	1. Registration through Form 2. Registration through Gmai 3. Registration through LinkedIN
FR-2	User Confirmation	4. Confirmation via Email 5. Confirmation via OTP
FR-3	User Login	6. Login through email and password
FR-4	User purchase	7. They can search and buy all kinds of goods or products from chatbot.

4.2 NON FUNCTIONAL REQUIREMENTS :

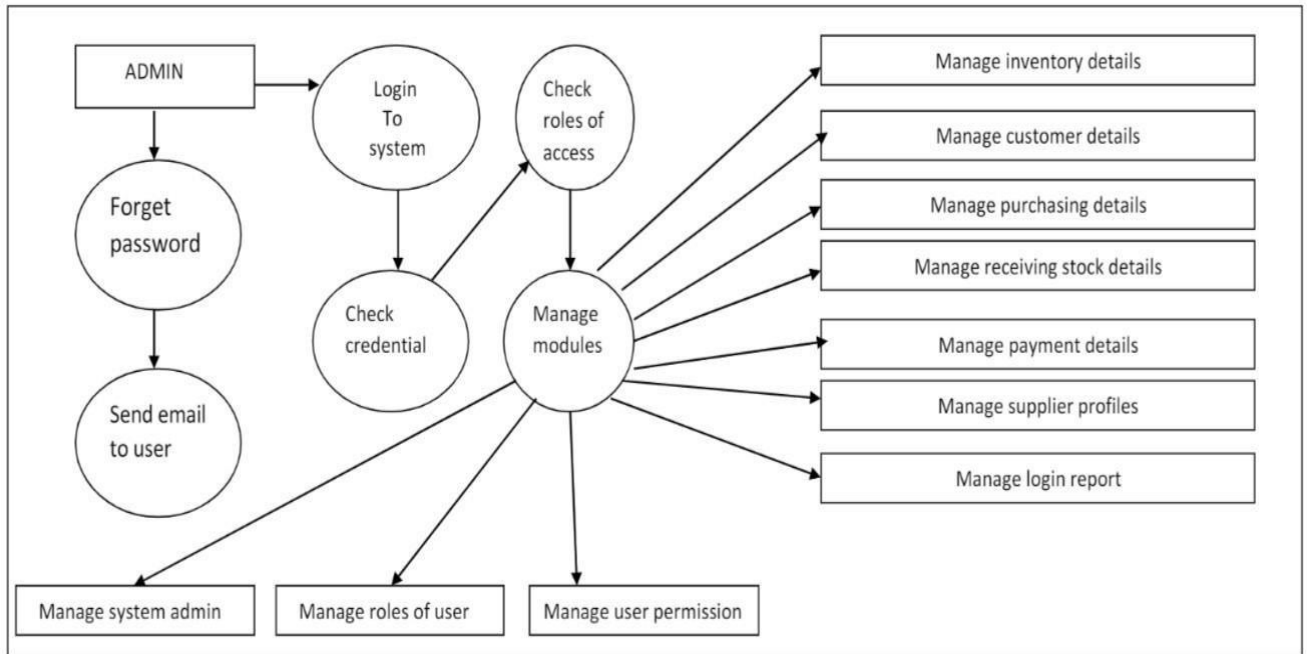
FR No	Non-Functional Requirement	Description
NFR- 1	Usability	It doesn't specify parts of the system functionality , Only how that functionality is to be perceived by the user .and also helps to learn in easy way and how efficient it must be for carrying out user tasks
NFR- 2	Security	It assures all data or its part will be protected against malware attack and unauthorized access
NFR- 3	Reliability	It defines how the software works without failure for given period time, and decreases because of in code, or problem with components. To Measure this can count the percentage of operation that are completed correctly.

NFR- 4	Performance	The performance of this software is more quicker than any others and also saves time and earn profit and also very easy for the customer while buying in online
NFR- 5	Availability	They are available for 24/7.
NFR- 6	Scalability	The ability to meet customer demands at scale is what it makes the customer service chat bots are successful.

5.PROJECT DESIGN

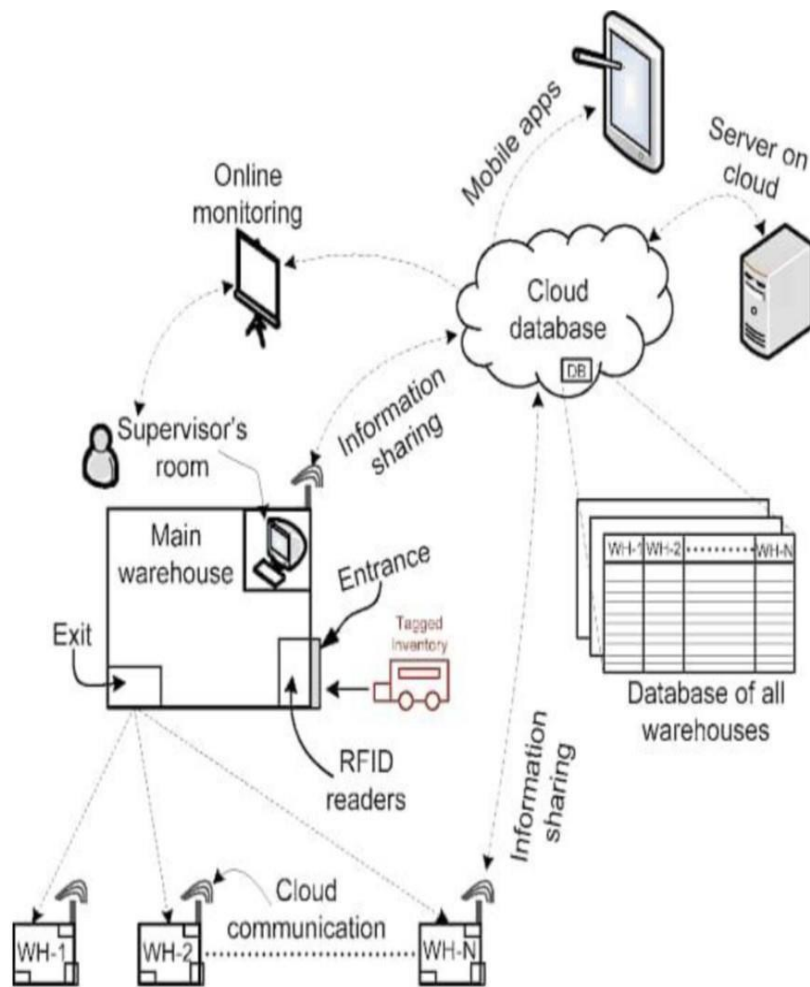
5.1 DATA FLOW DIAGRAMS:

Data flow diagram is a way of representing a flow of data through a process or a system. The DFD also provides information about the output and input of each entity and the process itself. A data flow diagram has no control flow- there are no decision rules and no loops.



5.2 SOLUTION AND TECHNICAL ARCHITECTURE:

Based on the complexity of the deployment, a solution architecture diagram may actually be a set of diagrams documenting various levels of the architecture. The diagram relates the information that you gather on the environment to both physical and logical choices for your architecture in an easily understood manner.



5.3 USER STORIES:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a customer , I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard.	High	Sprint-1
	login	USN-2	As a customer, I can login to the application by entering correct email and password.	I can receive confirmation email & click confirm to proceed.	High	Sprint-1
	dashboard	USN-3	As a customer, I can see all the orders raised by me.	I get all the info needed in my dashboard.	Low	Sprint-2
	Order creation	USN-4	As a customer ,I can place my order with the detailed description of my query.	I can ask my query.	Medium	Sprint-2
	Address column	USN-5	As a customer, I can have conversation with the assigned agent and get my queries clarified.	My queries are clarified.	High	Sprint-3
Agent (Web user)	Login	USN-1	As a agent , I can login to the application by entering correct email and password.	I can access my account / dashboard.	High	Sprint-1
	dashboard	USN-2	As a agent i can see the order details assigned to me by admin.	I can see all the order details in dashboard	Medium	Sprint-2
	Order details	USN-3	As a agent i have to send the order/product to the correct customer	I get better understanding	Medium	Sprint-3
Admin (mobile user)	login	USN-1	As a admin , I can login to the application by entering correct email and password.	I can access my account / dashboard.	High	Sprint-1
	Dashboard	USN-2	As a admin ,I can see all the order raised in the entire system and lot more	I can assign agent by seeing those order.	High	Sprint-2
	Agent creation	USN-3	As a admin i can create an agent for each order created by the customer.	I can create agents.	High	Sprint-3
	Assignment agent	USN-4	As a admin i can assign an agent for each order created by the customer.	Enable agent to clarify the queries.	High	Sprint-4

6. PROJECT PLANNING & SCHEDULING 6.1

SPRINT PLANNING & ESTIMATION:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by using my email & password and confirming my login credentials.	2	High	ARUN R, KISHAN KUMAR R GANESH D KOVARATHINAN S
Sprint-1		USN-2	As a user, I can login through my E-mail.	2	Medium	ARUN R, KISHAN KUMAR R GANESH D KOVARATHINAN S
Sprint-1	Confirmation	USN-3	As a user, I can receive my confirmation email once I have registered for the application.	2	High	ARUN R, KISHAN KUMAR R GANESH D KOVARATHINAN S
Sprint-1	Login	USN-4	As a user, I can log in to the authorized account by entering the registered email and password.	2	Medium	ARUN R, KISHAN KUMAR R GANESH D KOVARATHINAN S
Sprint-2	Dashboard	USN-5	As a user, I can view the products that are available currently.	2	High	ARUN R, KISHAN KUMAR R GANESH D KOVARATHINAN S
Sprint-2	Stocks update	USN-6	As a user, I can add products which are not available in the inventory and restock the products.	2	Medium	ARUN R, KISHAN KUMAR R GANESH D KOVARATHINAN S
Sprint-3	Sales prediction	USN-7	As a user, I can get access to sales prediction tool which can help me to predict better restock management of product.	2	Medium	ARUN R, KISHAN KUMAR R GANESH D KOVARATHINAN S
Sprint-3	Email alert	USN-8	As a user, I can get the mail alert for the stock out situation.	2	Medium	ARUN R, KISHAN KUMAR R GANESH D KOVARATHINAN S
Sprint-4	Request for customer care	USN-9	As a user, I am able to request customer care to get in touch with the administrators and enquire the doubts and problems.	2	Medium	ARUN R, KISHAN KUMAR R GANESH D KOVARATHINAN S
Sprint-4	Giving feedback	USN-10	As a user, I am able to send feedback forms reporting any ideas for improving or resolving any issues I am facing to get it resolved.	2	Medium	ARUN R, KISHAN KUMAR R GANESH D KOVARATHINAN S

6.2 SPRINT DELIVERY SCHEDULE:

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

7. CODING & SOLUTIONING

7.1 FEATURES:

In this project, we have done web application which is used to maintain the inventory of the retailers:

- By implementing inventory management system on your premise, you will not only be able to locate the stocks instantly but also will have complete location data and stocks availability with 97% accuracy.
- The application helps a lot in finding the dead inventory or obsolete materials to identify the stocks and utilize them properly and wisely. With such a system in place, the application will help the inventory managers to control the stocks.

8. TESTING

Microsoft Excel - Testcases Report Template														
1	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2					Date	03-Nov-22								
3					Team ID	PNT2022TMD37075								
4					Project Name	Project - Inventory management system for Retailers								
5					Maximum Marks	4 marks								
6	Test case ID	Feature Type	Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation(Y/N)	BUG ID	Executed By
7	RegisterPage_TC_001	Functional	Register Page	Verify the details in register page and move the details to the database.	HTML, CSS, JS & PHP	1.Enter the register page by running the register.html and click go 2.Enter the necessary details 3.Click on the register button		Application should show below UI elements: a.email text box b.Register number text box c.Register button with blue colour	Working as expected	Pass	We cannot connect to IBM DB2 so I used PHP & for DB.			
8	LoginPage_TC_002	Functional	Login Page	Verify the UI elements in Login	HTML, CSS, JS & PHP	1.Enter and click go. 2.Click on login button. 3.Verify login with below UI elements: a.email text box b.password text box c.Login button.	email address: kishan@gmail.com password: kishan123	Application should show below UI elements: a.email text box b.password text box c.Login button with orange colour	Working as expected	Pass	By clicking on the login button user redirects to the dashboard.			
9	Dashboard_TC_003	Functional	Home page	User can view the user dashboard.	HTML, CSS & JS	1.Enter the login details and click login button 2.Verify the login details 3.User can able to see the details.		User should redirect to user dashboard homepage	Working as expected	Pass	Dashboard contains all the necessary details.			
10	Profile_TC_004	Functional	Profile page	Verified user can view the profile details.	HTML, CSS & JS	1.Enter the dashboard 2.Click on profile tab 3.The user details will be available on the page	email address: kishan@gmail.com password: kishan123	Application should show the user details and user can create a new account	Working as expected	Pass				
11	View Inventory_TC_005	UI	Inventory page	Verified user can view the inventory details.	HTML, CSS & JS	1.Enter the dashboard 2.Click on view inventory tab 3.The user can view the inventory details available on the page		Application should show the availability of products in the inventory.	Working as expected	Pass				
12	Sales History_TC_006	UI	Sales History page	Verified user can view the sales details.	HTML, CSS & JS	1.Enter the dashboard 2.Click on Sales History tab 3.The user can view the history of sales available		Application should show history of products sales	Working as expected	Pass				
13	Update Inventory_TC_007	Functional	Update Inventory page	Verified user can update the inventory details available on page.	HTML, CSS & JS	1.Enter the dashboard 2.Click on Update Inventory tab 3.The user can add the inventory details available		Application should get the details of the new products from the user and store it in the database.	Working as expected	Pass				
14	About_TC_008	UI	About page	Verified user can view the application details available on page.	HTML, CSS & JS	1.Enter the dashboard 2.Click on About tab 3.The user can view the details of application		Application should show the details of application	Working as expected	Pass				


USER ACCEPTANCE TESTING:

User acceptance testing (UAT) also called application testing or enduser testing, is a phase of software development in which the software is tested in the real world by its intended audience. UAT is often the last phase of the software testing process and is performed before the tested software is released to its intended market. The goal of UAT is to ensure software can handle real-world tasks and perform up to development specifications.

9. RESULTS

OUTPUT:

1. REGISTER PAGE:

 INVENTORY ASSISTANT

Register Here!

Email address
kishan@gmail.com

User Name
kishan


Register Number
+919443469827

Password
kishan@123

Register

Already registered? [LOGIN](#)

2. LOGIN PAGE:

 INVENTORY ASSISTANT

Welcome to Inventory Assistant!!

Email address
kishan@gmail.com

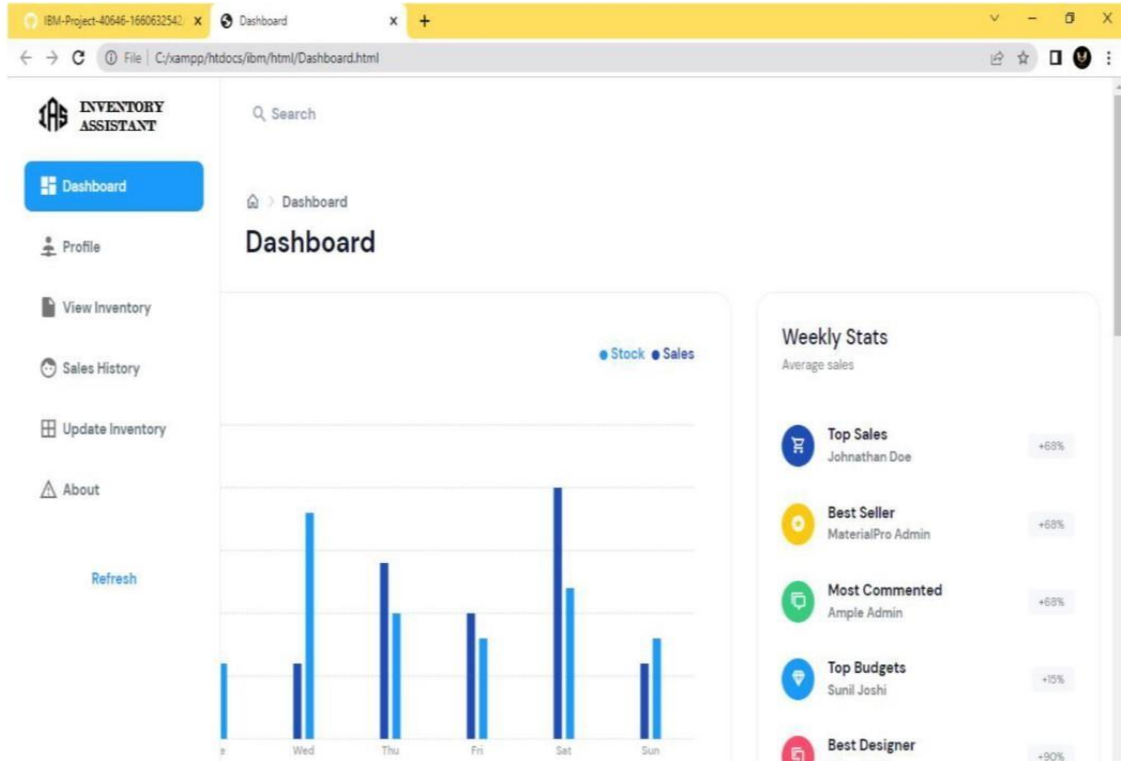
Password

New User: [REGISTER](#)

Login

All rights reserved by AKGKSMIT, Inc

3.DASHBOARD:



10.ADVANTAGES:

► Automated Reordering and In-Stock Information:

Computerized inventory informs employees and customers within seconds whether an item is in stock. Because the inventory is synced with sales, there is a running tally of what is in stock and what isn't. This helps flag reordering needs and provides better service to customers. As inventory drops below a specific threshold, new orders are placed with vendors and tracked to let customers know when the new products will arrive.

► Integration With Accounting:

Many of the computerized inventory platforms integrate with accounting software to track cash flow. This makes the process of transferring inventory costs and assets between programs seamless and reduces the need for

additional bookkeeping costs. Financial statements are more easily generated with shared data between inventory and bookkeeping.

► **Forecasting and Planning:**

Inventory management software does more than track where inventory is located and when to reorder it. A data collection system is used to create needed forecasting and strategic planning reports. Business owners review trends regarding which products do well in certain months or during specific cyclical seasons. Business owners use this data to plan for growth and order inventory intelligently to best utilize cash flow resources.

DISADVANTAGES:

► **System Crash**

One of the biggest problems with any computerized system is the potential for a system crash. A corrupt hard drive, power outages and other technical issues can result in the loss of needed data. At the least, businesses are interrupted when they are unable to access data they need. Business owners should back up data regularly to protect against data loss.

► **Malicious Hacks**

Hackers look for any way to get company or consumer information. An inventory system connected to point-of-sale devices and accounting is a valuable resource to hack into in search of potential financial information or personal details owners, vendors or clients. Updating firewalls and anti-virus software can mitigate this potential issue.

► **Reduced Physical Audits**

When everything is automated, it is easy to forego time-consuming physical inventory audits. They may no longer seem necessary when the computers are doing their work. However, it is important to continue to do regular audits to

identify loss such as spoilage or breakage. Audits also help business owners identify potential internal theft and manipulation of the computerized inventory system.

11. CONCLUSION

Inventory management is a very complex but essential part of the supply chain. An effective inventory management system helps to reduce stock-related costs such as warehousing, carrying, and ordering costs.

12. FUTURE SCOPE

Since this project was started with very little knowledge about the Inventory Management System, we came to know about the enhancement capability during the process of building it. Some of the scope we can increase for the betterment and effectiveness oar listed below:

- Interactive user interface design.
- Manage Stock God own wise.
- Use of Oracle as its database.
- Online payment system can be added.
- Making the system flexible in any type.
- Sales and purchase return system will be added in order to make return of products.
- Lost and breakage

13.APPENDIX:

SOURCE CODE:

1. LOGIN :

```
<!DOCTYPE html>
```



```
<html>
<head>
  <title>Document</title>

  <!-- bootstrap link begins -->
  <!-- CSS only -->
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min
.css" rel="stylesheet" integrity="sha384-
iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYal1GyVh/UjpbCx/TYkiZhlZB6+fz
T" crossorigin="anonymous">
<!-- JavaScript Bundle with Popper -->
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundl
e.min.js" integrity="sha384-
u10knCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHl7NnikvbZlHgTPOOmMi 466C8"
crossorigin="anonymous"></script>

  <!-- bootstrap link ends -->

  <link href="style.css" rel="stylesheet">
</head>
<body>
<div class="back">
  <!-- nav bar code begins -->
  <nav class="navbar bg-primary">
    <div class="container-fluid">
      <a class="navbar-brand" href="#">
```

```

```

```

```

```
</a>
```

```
</div>
```

```
</nav>
```

```
<!-- nav bar code ends -->
```

```
<!-- hero beings -->
```

```
<div class="container my-5">
```

```
<div class="row p-4 pb-0 pe-lg-0 pt-lg-5 align-items-center rounded-3 border  
shadow-lg">
```

```
<div class="col-lg-7 p-3 p-lg-5 pt-lg-3">
```

```
<h1 class="display-4 fw-bold lh-1">Welcome to Inventory
```

```
Assistant!!</h1>
```

```
</div>
```

```
<div class="col-md-10 mx-auto col-lg-5">
```

```
<form class="p-4 p-md-5 border rounded-3 bg-light" action="/login"  
method="post">
```

```
<div class="form-floating mb-3">
```

```
<input name="email" type="email" class="form-control" id="floatingInput"  
placeholder="">
```

```
<label for="floatingInput">Email address</label>
```

```
</div>
```

```
<div class="form-floating mb-3">
```

```

        <input name="pwd" type="password" class="form-control"
id="floatingPassword" placeholder="">
        <label for="floatingPassword">Password</label>
    </div>
    <div class="errMsg">
        <p class="text-muted errMsg">
            New User <a href="register.html" style="text-decoration:none
;">REGISTER</a>
        </p>
    </div>
    <a href="Dashboard.html" class="btn btn-primary btn-rounded waveseffect
waves-light m-b-40 text-white">Login</a>
    <hr class="my-4">
</form>
</div>
</div>
</div>
<!-- hero ends -->
<!-- footer begins -->

<footer>
    <p class="text-center text-muted">All rights reserved by AKGK.SMIT,
Inc</p>
</footer>
</div>

```

```
<!-- footer ends -->
```

```
</div>
```

```
</body>
```

```
</html>
```

2. REGISTER:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Register Form</title>
```

```
<!-- CSS only -->
```

```
<link
```

```
  href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
```

```
  iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYal1GyVh/UjpbCx/TYkiZhlZB6+fz
```

```
  T" crossorigin="anonymous">
```

```
<!-- JavaScript Bundle with Popper -->
```

```
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js" integrity="sha384-
u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIH7NnikvbZIHgTPOOmMi
466C8" crossorigin="anonymous"></script>
<link href="stylesheet.css" rel="stylesheet">
```

```
</head>
```

```
<body>
```

```
<!-- nav bar code begin -->
```

```
<nav class="navbar bg-primary">
```

```
<div class="container-fluid">
```

```
<a class="navbar-brand" href="#">
```

```

```

```

```

```
</a>
```

```
</div>
```

```
</nav>
```

```
<!-- nav bar code ends -->
```

```
<!-- login code starts -->
```

```
<div id="container">
<center><b>Register Here!</b></center><br><br>
<form action="/registerdata" method="POST">
  <div class="mb-3">
    <label for="email" class="form-label">Email address</label>
<input type="email" class="form-control" id="email" name="email" required>
  </div>
  <div class="mb-3">
    <label for="name" class="form-label">User Name</label>
    <input type="text" class="form-control" id="username" name="username"
required>
  </div>
  <div class="mb-3">
    <label for="name" class="form-label">Register Number</label>
<input type="integer" class="form-control" id="regno" name="regno" required>
  </div>
  <div class="mb-3">
    <label for="name" class="form-label">Password</label>
<input type="varchar" class="form-control" id="password"
name="password" required>
  </div>
  <a href="login.html" div class="btn btn-primary btn-rounded waveseffect waves-
light m-b-40 text-white">Register</a>
<div>
  Already registered? <a href="login.html" style="text-decoration:none
```

```
;">LOGIN</a>
```

```
</form>
```

```
</div>
```

```
<!-- login code ends -->
```

```
</body>
```

```
</html>
```

3. UPDATE_INVENTORY:

```
<!DOCTYPE html>
```

```
<html dir="ltr" lang="en">
```

```
<head>
```

```
<meta charset="utf-8">
```

```
<meta http-equiv="X-UA-Compatible" conten<html dir="ltr" lang="en">
```

```
<head>
```

```
<meta charset="utf-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<!-- Tell the browser to be responsive to screen width -->
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<meta name="keywords"
```

```
    content="wrappixel, admin dashboard, html css dashboard, web dashboard,  
bootstrap 5 admin, bootstrap 5, css3 dashboard, bootstrap 5 dashboard, Flexy  
lite admin bootstrap 5 dashboard, frontend, responsive bootstrap 5 admin  
template, Flexy admin lite design, Flexy admin lite dashboard bootstrap 5  
dashboard template">
```

```
<meta name="description"
content="inpired from Bootstrap Framework">
<meta name="robots" content="noindex,nofollow">
<title>Update Inventory</title>
<link rel="canonical" href="https://www.wrappixel.com/templates/Flexyadmin-
lite/" /> <!--
Favicon icon -->

<link rel="icon" type="image/png" sizes="16x16"
href="../assets/images/favicon.png">
<!-- Custom CSS -->
<link href="../dist/css/style.min.css" rel="stylesheet">
<!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media
queries -->
<!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
<!--[if lt IE 9]>
<script
src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>
<script
src="https://oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></scri
pt>
<![endif]-->
</head>

<body>
<!--
```


=====

== -->

<!-- Preloader - style you can find in spinners.css -->

<!--

=====

== -->

<?php

if(isset(\$_POST["product_details"]))

{

if (\$_SERVER["REQUEST_METHOD"] == "POST") {

 \$product_id = \$_POST["product_id"];

 \$product_name = \$_POST["product_name"];

 \$quantity =

 \$_POST["quantity"]; \$date =

 \$_POST["date"]; echo

 \$product_id; echo

 \$product_name;

 \$conn=

 mysqli_connect("localhost","root","","ibm_project"); if

 (!\$conn) { die("Connection failed: " .

 mysqli_connect_error());

 }

```
$sql = "INSERT INTO product_details (product_name,
quantity, Product_id, Date_of_Order) VALUES (\">$product_name\",
\ \"$quantity\", \ \"$product_id\", \ \"$date\");
```

```
}
```

```
}
```

```
?>
```

```
<div class="preloader">
```

```
<div class="lds-ripple">
```

```
<div class="lds-pos"></div>
```

```
<div class="lds-pos"></div>
```

```
</div>
```

```
</div>
```

```
<!-- =====
```

```
== -->
```

```
<!-- Main wrapper - style you can find in pages.scss -->
```

```
<!--
```

```
=====
```

```
== -->
```

```
<div id="main-wrapper" data-layout="vertical" data-navbarbg="skin5"
datasidebartype="full"
```

```
data-sidebar-position="absolute" data-header-position="absolute" databoxed-
layout="full">
```

```

<!--
=====
== -->

<!-- Topbar header - style you can find in pages.scss -->
<!--
=====
== -->

<header class="topbar" data-navbarbg="skin6">
    <nav class="navbar top-navbar navbar-expand-md navbar-light">
        <div class="navbar-header" data-logobg="skin6">
            <!--
=====
== -->

            <!-- Logo -->
            <!--
=====
== -->

            <a class="navbar-brand" href="index.html">
                <!-- Logo icon -->
                <b class="logo-icon">
                    <!--You can put here icon as well // <i class="wi wisunset"></i>
//-->

                    <!-- Dark Logo icon -->
                    
                    <!-- Light Logo icon -->

```

```

        
    </b>
    <!--End Logo icon -->
    <!-- Logo text -->
    <span class="logo-text">
        <!-- dark Logo text -->
        
        <!-- Light Logo text -->
        
    </span>
</a>
<!--
=====
== -->

    <!-- End Logo -->
    <!--
=====
== -->

    <!-- This is for the sidebar toggle which is visible on mobile only ->
    <a class="nav-toggler waves-effect waves-light d-block dmdnone"
href="javascript:void(0)"><i
        class="ti-menu ti-close"></i></a>

```

</div>

<!--

=====

== -->

<!-- End Logo -->

<!--

=====

== -->

<div class="navbar-collapse collapse" id="navbarSupportedContent" data-
navbarbg="skin5">

<!--

=====

== -->

<!-- toggle and nav items -->

<!--

=====

== -->

<ul class="navbar-nav float-start me-auto">

<!--

=====

== -->

<!-- Search -->

<!--

=====

== -->

```

<li class="nav-item search-box"> <a class="nav-link waveseffect
waves-dark"
href="javascript:void(0)"><i class="mdi mdi-magnify me-
1"></i> <span class="font-16">Search</span></a>
<form class="app-search position-absolute">
<input type="text" class="form-control" placeholder="Search
&amp; enter"> <a
class="srh-btn"><i class="mdi mdi-
windowclose"></i></a>
</form>
</li>
</ul>
<!--
=====
== -->

<!-- Right side toggle and nav items -->
<!--
=====
== -->

</nav>

</header>
<!--
=====
== -->

<!-- End Topbar header -->
<!--

```

```

=====

== -->
    <!-- =====
== -->
    <!-- Left Sidebar - style you can find in sidebar.scss -->
    <!--
=====

== -->
    <aside class="left-sidebar" data-sidebarbg="skin6">
        <!-- Sidebar scroll-->
        <div class="scroll-sidebar">
            <!-- Sidebar navigation-->
            <nav class="sidebar-nav">
                <ul id="sidebarnav">
                    <li class="sidebar-item"> <a class="sidebar-link waves-effect waves-
dark sidebar-link"
                        href="Dashboard.html" aria-expanded="false"><i
class="mdi mdi-view-dashboard"></i><span
                        class="hide-menu">Dashboard</span></a></li>
                    <li class="sidebar-item"> <a class="sidebar-link waves-effect waves-dark
sidebar-link"
                        href="Profile.html" aria-expanded="false"><i
class="mdi mdi-account-network"></i><span
class="hide-menu">Profile</span></a></li>
                    <li class="sidebar-item"> <a class="sidebar-link waves-

```

effect waves-dark sidebar-link"

href="View Inventory.html" aria-expanded="false"><i

class="mdi mdi-file"></i><span

class="hide-menu">View Inventory

<li class="sidebar-item"> <a class="sidebar-link waves-

effect waves-dark sidebar-link"

href="Sales-History.html" aria-expanded="false"><i

class="mdi mdi-face"></i><span

class="hide-menu">Sales History

<li class="sidebar-item"> <a class="sidebar-link waves-effect waves-

dark sidebar-link"

href="Update Inventory.html" aria-expanded="false"><i

class="mdi mdi-border-all"></i><span

class="hide-menu">Update Inventory

<li class="sidebar-item"> <a class="sidebar-link waves-effect

waves-dark sidebar-link"

href="About.html" aria-

expanded="false"><i class="mdi

mdi-alert-outline"></i><span

class="hide-menu">About

<li class="text-center p-40 upgrade-btn">

Refresh


```
        </li>
    </ul>

    </nav>
    <!-- End Sidebar navigation -->
</div>
<!-- End Sidebar scroll-->
</aside>
<!--
=====

== -->
    <!-- End Left Sidebar - style you can find in sidebar.scss -->
    <!--
=====

== -->
    <!--
=====

== -->
    <!-- Page wrapper -->
    <!-- =====

== -->
    <div class="page-wrapper">
        <!--
=====

== -->
```

```

<!-- Bread crumb and right sidebar toggle -->
<!--
=====

== -->

<div class="page-breadcrumb">
  <div class="row align-items-center">
    <div class="col-6">
      <nav aria-label="breadcrumb">
        <ol class="breadcrumb mb-0 d-flex align-items-center">
<li class="breadcrumb-item"><a href="Dashboard.html" class="link"><i
class="mdi mdi-home-outline fs-4"></i></a></li>
          <li class="breadcrumb-item active" aria-
current="page">Update inventory</li>
        </ol>
      </nav>
      <h1 class="mb-0 fw-bold">Update</h1>
    </div>
    <div class="col-6">
      <div class="text-end upgrade-btn">
        <a href="">Refresh</a>
      </div>
    </div>
  </div>
</div>
<!--

```

```

=====

== -->

    <!-- End Bread crumb and right sidebar toggle -->
    <!--

=====

== -->

    <!--

=====

== -->

    <!-- Container fluid -->
    <!--

=====

== -->

    <div class="container-fluid">
        <!--

=====

== -->

    <!-- Start Page Content -->
    <!--

=====

== -->

        <?php if(isset($_POST["product_details"]))
        {
            if (mysqli_query($conn, $sql)) {
                Echo "Record Inserted
Successfully";

```

```

        } else
        {
            echo "Error: " . $sql . "<br>" .
mysqli_error($conn);

        }

mysqli_close($conn);
    }

?>
    <form name="myform" method="POST" action="Update_Inventory.php">
<div class="row mb-3" >
    <label for="" class="col-sm-2 col-form-label fw-bolder">PRODUCT_ID :</label>
    <div class="col-sm-10">
        <input type="text" class="form-control" name="product_id" />
    </div>
</div>
<div class="row mb-3">
    <label for="" class="col-sm-2 col-form-label fw-bolder">PRODUCT_NAME :</label>
    <div class="col-sm-10">
        <input type="text" class="form-control" name="product_name" />
    </div>
</div>

    <div class="row mb-3">
    <label for="" class="col-sm-2 col-form-label fw-bolder">QUANTITY

```

:</label>

<div class="col-sm-10">

<input type="text" class="form-control" name="quantity" />

</div>

</div>

<label for="formGroupExampleInput2" class="form-label
fwbolder">DATE_OF_ORDER : </label>

<input type="date" class="dropdown" name="date" placeholder="DDMMYYYY"
/>

<div class="d-grid gap-2 d-md-block">

<button type="submit" class="btn btn-success btn-sm
">UPDATE</button>

<button type="submit" class="btn btn-danger btn-sm">CANCEL</button>

</div>

</form>

<!--

=====

== -->

<!-- End PAge Content -->

<!--

=====

== -->

<!--

=====

== -->

<!-- Right sidebar -->

<!--

=====

== -->

<!-- .right-sidebar -->

<!--

=====

== -->

<!-- End Right sidebar -->

<!--

=====

== -->

<!--

=====

== -->

<!-- End Container fluid -->

<!--

=====

<!--

== -->

=====

== -->

<!-- footer -->

<!--

=====

== -->

<footer class="footer text-center">

All Rights Reserved by AKGK.SMIT INC!

</footer>

<!--

=====

== -->

<!-- End footer -->

<!--

=====

== -->

</div>

<!--

=====

<!-- End Page wrapper -->

<!--

=====

== -->

== -->

</div>

<!--

=====

== -->

<!-- End Wrapper -->

<!--

=====

== -->

<!--

=====

== -->

<!-- All JQuery -->

<!--

=====

== -->

<script src="../../assets/libs/jquery/dist/jquery.min.js"></script>

<!-- Bootstrap tether Core JavaScript -->

```
<script
src="../../assets/libs/bootstrap/dist/js/bootstrap.bundle.min.js"></script>
<script src="../../dist/js/app-style-switcher.js"></script>
<!--Wave Effects -->
<script src="../../dist/js/waves.js"></script>
<!--Menu sidebar -->
<script src="../../dist/js/sidebarmenu.js"></script>
<!--Custom JavaScript -->
<script src="../../dist/js/custom.js"></script>
</body>

</html>
```

GITHUB LINK: <https://github.com/IBM-EPBL/IBM-Project-31429-1660200343>

PROJECT DEMO LINK: <https://youtu.be/syimuf0D0ZU>

