

# **INVENTORY MANAGEMENT SYSTEM FOR RETAILERS**

## **A PROJECT REPORT**

**Submitted by**

**TEAM ID : PNT2022TMID14633**

### **1. INTRODUCTION**

The aim of this project is to demonstrate how versatile Flask can be, how easily it integrates with MySQL, and how simple it is to create sophisticated web applications. A brief description of each technology used and how they interact with one another has been included.

#### **1.1 Project Overview**

For any online store, managing an inventory system is one of the most important activities. Managing an inventory system involves tracking sales / purchases and keeping track of stock levels. To make this process easier, we can use a software application known as an inventory management system. These systems help keep records and organize them into neat categories. They also provide us with reports that allow us to see how much product we

currently have, what our sales are, where the product comes from and what price it was sold for. Inventory management systems are generally used by businesses such as manufacturers, wholesalers and retailers who sell goods and services by storing stock in warehouses.

## 1.2 Purpose

The aim of this project is to demonstrate the flexibility and effectiveness of using Flask along with Remote MySQL in order to build an efficient and robust inventory management system. In particular, the scope of this project includes the successful delivery of a fully functional application that allows for the submission of data, insertion of new records, deletion/updating existing records, and retrieval of records based upon an assortment of filters.

## 2. LITERATURE SURVEY

### 2.1 Existing problem

Businesses are quickly realizing that inventory management is absolutely essential to running an efficient business and making money in the process. In particular, businesses today cannot afford to lose money or have cash flow issues. Having a consistent stock level means not

having any issues with the availability of your products; as such, it ensures that your clients remain satisfied. Also, having high rates of inventory turnover minimizes the risk of obsolescence. Businesses also benefit from having low amounts of working capital because they can focus on core activities rather than constantly investing in inventory. Finally, high levels of working capital mean that there is no need to spend as much money on storage costs. With a spreadsheet system, employees can enter inventory information into spreadsheets, which minimizes the likelihood of data entry errors. Furthermore, if someone changes the data, the entire spreadsheet needs to be updated. Lastly, lost customers due to poor inventory management should be avoided because without good inventory management, the business could easily suffer from customer attrition.

## 2.2 References

□ [https://www.researchgate.net/publication/352910876\\_CloudBased\\_Inventory\\_System\\_for\\_Effective\\_Management\\_of\\_Under\\_and\\_Overstock\\_Hazards](https://www.researchgate.net/publication/352910876_CloudBased_Inventory_System_for_Effective_Management_of_Under_and_Overstock_Hazards)

[https://www.researchgate.net/publication/282069074\\_A\\_CloudBased\\_Retail\\_Management\\_System](https://www.researchgate.net/publication/282069074_A_CloudBased_Retail_Management_System)

## 2.3 Problem Statement Definition

Retailers stock administration is the process of guaranteeing you

bear merchandise that shoppers want, accompanying neither too little nor also chew available. By managing stock, retailers meet consumer demand outside failing of stock or bearing waste supply in practice, persuasive sell stock administration results in lower costs and a better understanding of businesses pattern. Retail stock administration forms and forms give retailers more facts on that to run their trades. Applications have existed grown to help retailers path and control stocks had connection with their own products. The system will request retailers to construct their reports by providing basic facts. Retailers can approach their reports by record into the use before retailers successfully transfer data from one computer system to another to the use they can view analyses of the current stock analyses, again consumers will be able to have or do adjoin new stock by submitting essential analyses had connection with the stock. They can view analyses of the current stock. The system will as a matter of usual practice transmit an electronic mail alert to the retailers if skilled is no stock about their accounts. So that they can order new stock.

## Inconsistent Tracking

Using manual stock pursuing processes across various spreadsheets

and spreadsheets is late, excessive and weak to mistakes.

>Even limited trades can benefit from a concentrated stock following

method that contains bookkeeping.

resolution: Centralized Tracking deal

with improving to pursuing spreadsheet

that determines electrical lineaments for re-commanding and obtainment.

Inventory administration podiums determine concentrated, cloud-located

databases for correct, mechanical stock refurbishes and palpable-opportunityS

## SUPPLY DEMAND

Customer demand is uniformly shifting. Keeping too much keep result

in obsolete stock you are unable to advertise, while keeping too

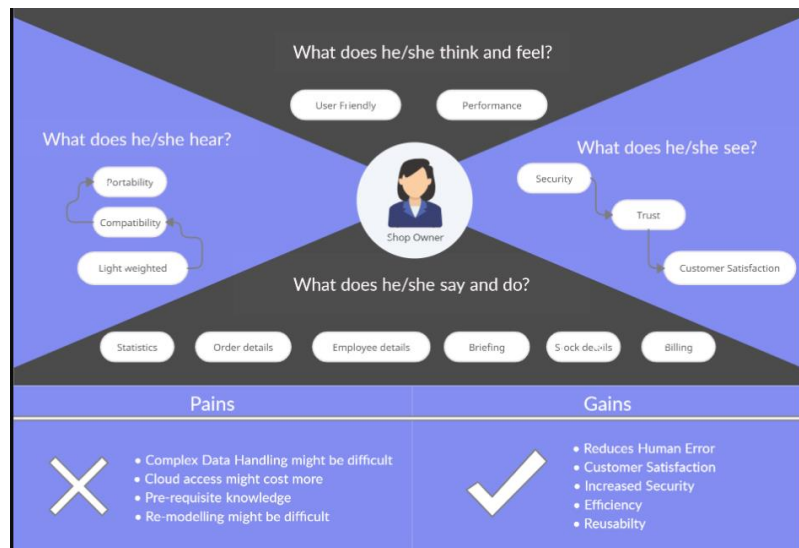
little manage leave you unable to fulfil customer orders.

⇒ Order plans for core items in addition to technology to create and

kill an inventory plan, can help fix changing demand.  
Solution: Demand forecasting few inventory management  
terraces include demand forecasting forms. This feature inte  
grates with  
accounting and reductions data to help you anticipate deman  
d and schedule orders  
based  
on shifting consumer preferences, material availability or sea  
sonal  
flows

### 3. IDEATION & PROPOSED SOLUTION

#### 3.1 Empathy Map Canvas



An understanding sketch helps to plan what a design crew  
experiences about

the potential hearing. This finish helps to accept the reason  
behind few conduct a consumer takes intensely. This form h  
elps build

Empathy towards consumers and helps design groups shift f  
ocus from the

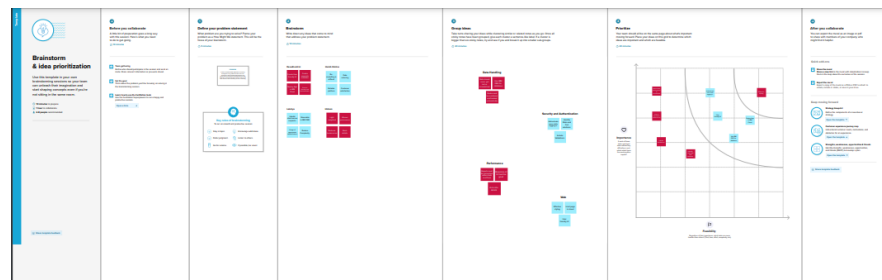
amount to the consumers the one are make use  
of use the amount. As the crew

learns nearly the consumers, they place that news on the ch  
art

and gain an meticulous view of the consumer demeanor, qu  
estions,

time.

### 3.2 Ideation & Brainstorming



the process which plans are created utilizing  
methods like idea plan, free writing, etc. It maybe secondhand  
pick a issue ,decrease a board argument, or to boarden a ex  
cessively

narrow matter. Choosing a point maybe a troublesome proce  
ss when

offset an appointment, writing a paper, or wroking on an spok

en  
performance

### 3.3 Proposed Solution

Problem Statement (Problem expected answered)

- Stock analyses and administration is a grown task
- As there is no decent stock

Management resolutions famous to bureaucracy



Idea / Solution writing

- By providing a plank to uphold a decent report of the product analyses

◦ Both the retailers and the clients can path the order surely at this moment use.

- The request admits the consumers to see all the present period possible stocks and likewise when the new stock will be accessible on the store for ruling class to buy.

- The system will inform or alert the dealer over the end date of the commodity.



Novelty / Uniqueness

- Notifications will be shipped to the retailers if any crop that the clients have happened expect is not accessible for fear



that the brand maybe hoarded up soon.

- Exclusive discounts and offers are likely for normal clients to maintain ruling class busy accompanying the store frequently.
- Certain machine intelligence algorithms are used to foresee the seasonal extreme trading output that maybe fashioned handy all along period.



#### Social Impact / Customer Satisfaction

- The clients will be highly compensated because the ruining momentary while probing for an nonexistent production is lowered
- The work load of the retailers will be underrated if the system is mechanical continually and all along all purchase.
- The consumer delight will be revised for capturing appropriate answer from the retailers directly.



#### Business Model (Revenue Model)

Through this solution we can increase consumer vindication that leads to more profit in addition to decent stock support will decrease the money cost

as well

as the disappearance of the device will be prevented. Through this we are going to stock only the required output.

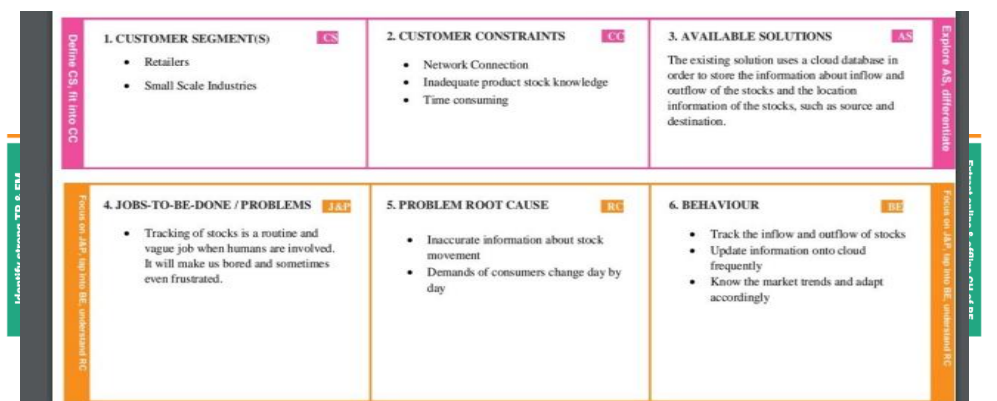


### Scalability of the Solution

- This resolution is doable cause we have enough electronics to implement this solution.

We have cloud estimating for detached achieve and miscellaneous communication order to inform.

## 3.4 Problem Solution fit



## 4. REQUIREMENT ANALYSIS

### 4.1 Functional requirement

**F**  
**R**      **Functional Requirement**

**Sub Requirement (Story / Sub-Task)**

No.	(Epic)	
F R-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
F R-2	User Confirmation	Confirmation via Email Confirmation via OTP
F R-3	Transactions processing	Transaction processing systems provide an execution environment that ensures the integrity, availability, and security of data.
F R-4	Authorization levels	Authority levels provide a method of grouping privileges and higher level operations for maintaining database managers and utility operations.
F R-5	External interfaces	The External Interface enables client applications to start and converse with applications that are running. It is therefore a method of enhancing an existing application by adding a graphical or other modern interface.

#### 4.2 Non-Functional requirements

##### **Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

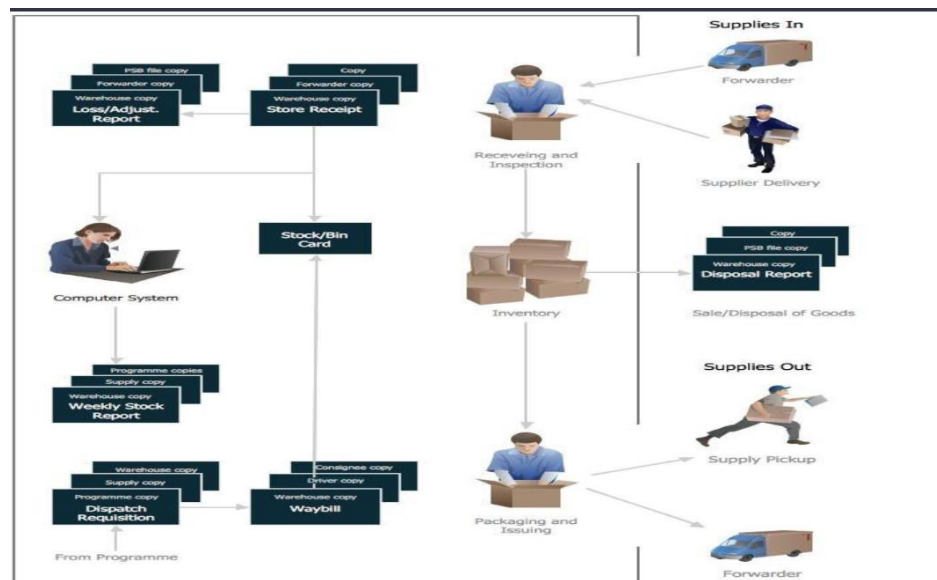
F R	Non-Functional Requirement	Description
--------	----------------------------	-------------

<b>No.</b> N FR- 1	<b>Usability</b>	Usability defines how difficult it will be for a user to learn and operate the system. Usability can be accessed from different points of view.
N FR- 2	<b>Security</b>	Security requirements ensure that the software is protected from unauthorized access to the system and its stored data.
N FR- 3	<b>Reliability</b>	Reliability defines how likely it is for the software to work without failure for a given period .It decreases because of bugs in the code, hardware failures, or problems with other system components.
N FR- 4	<b>Performance</b>	Performance is a quality attribute that describes the responsiveness of the system to various user interactions with it. Poor performance leads to negative user experience. It also jeopardizes system safety when overloaded.
N FR- 5	<b>Availability</b>	Availability is gauged by the period that the system's functionality and services are available for use with all operations.
N FR- 6	<b>Scalability</b>	Scalability requirements describe how the system must grow without negative influence on its performance. This means serving more users, processing

more data, and doing more transactions.

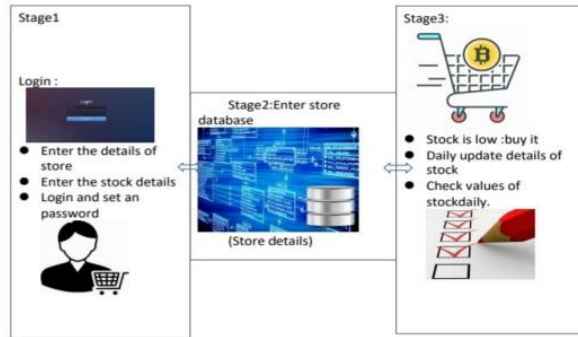
## 5. PROJECT DESIGN

### 5.1 Data Flow Diagrams



### 5.2 Solution & Technical Architecture

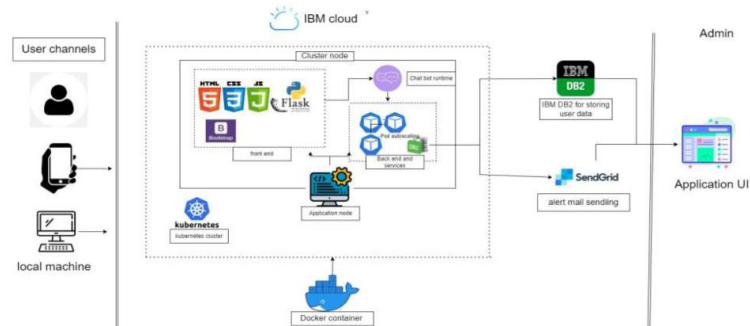
## Solution



## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	16 October 2022
Team ID	PNT2022TMD14633
Project Name	Inventory management system for retailers
Maximum Marks	4 Marks

### Technical Architecture:



**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	It provides an interaction between application and user.	HTML, CSS, JavaScript ,python flask
2.	Application Logic-1(Authorization)	getting the necessary details of the user in order to create an account themselves for user authentication	Python
3.	Application Logic-2(Notification)	After successful authentication, the system will email a user ID, user password, and send an alert mail to the user to inform them of product availability.	Sendgrid
4.	Application Logic-3(Interaction)	It is an automated software that is used to provide more interaction and communication. It helps the user to understand the software better	IBM Watson Assistant
5.	Database	The database stores the inventory details	MySQL
6.	Cloud Database	It is the first priority storage location for the goods (inventory) provided as a service in the IBM Cloud.	IBM DB2
7.	File Storage	The software's file storage, high security and high availability.	IBM cloud object storage
8.	External API-1(Payment API)	The purpose of the external API used in the application is to provide payment management services	IBM Weather API, etc.
9.	External API-2(Authentication)	The purpose of the external API used in the application is to provide authentication	authentication API
10.	Infrastructure (Server / Cloud)	Application Deployment on Cloud	Kubernetes,

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	<ul style="list-style-type: none"> <li>html provides the basic structure of a web page</li> <li>CSS is used to describe the colour, size, etc. of a web page</li> <li>JavaScript is a backend framework</li> <li>Bootstrap is a built in class in CSS for more and instant style</li> <li>Python flask makes web developer life easy to build a web-application</li> </ul>	Bootstrap, python-,flask, HTML, CSS, JS
2.	Security Implementations	For the authentication purpose	Sendgrid
3.	Scalable Architecture	It breaks the architecture into smaller pieces (micro services) and makes them loosely coupled for improving scalability.	Kubernetes
4.	Availability	Docker packages an application and all its dependencies into a virtual container that can run on anywhere	Docker
5.	Performance	Kubernetes services provide load balancing and simplify container management across multiple hosts.	Kubernetes

## 5.3 User Stories

### User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	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.	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 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	I can log into the application by entering email & password	High	Sprint-1
	Request	USN-6	Request an item	Happy to find ease to use	High	Sprint-2
	Search	USN-7	Search an item	Easy to find an item	High	Sprint-3
	Orders	USN-8	As an user can place the order	User can receive a confirmation message	High	Sprint-3
	Payments	USN-9	Make a payment for purchasing	I can pay and get confirmation bill	High	Sprint-4
	Monitoring	USN-10	Monitoring quantity of the items	I can update how much of item needed	High	Sprint-4
	Feedback	USN-11	Users can share their experience about the items	users friendly customer support	High	Sprint-5

## 6. PROJECT PLANNING & SCHEDULING

### 6.1 Sprint Planning & Estimation



**Product Backlog, Sprint Schedule, and Estimation**

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	User Panel	USN-1	The user will login into the website and go through the services available on the webpage	20	High	Devadharshini Harish Krishna.S Lakshya jain Hisham
Sprint-2	Admin panel	USN-2	The role of the admin is to check out the database about the availability and have a track of all the things that the users are going to service	20	High	Devadharshini Harish

						Krishna.S Lakshya jain Hisham
Sprint-3	Chat Bot	USN-3	The user can directly talk to Chatbot regarding the services. Get the recommendations based on information provided by the user.	20	High	Lakshya jain Hisham

## 6.2 Sprint Delivery Schedule

**Project Tracker, Velocity &  
Burndown Chart:**

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	5	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	4	05 Nov 2022

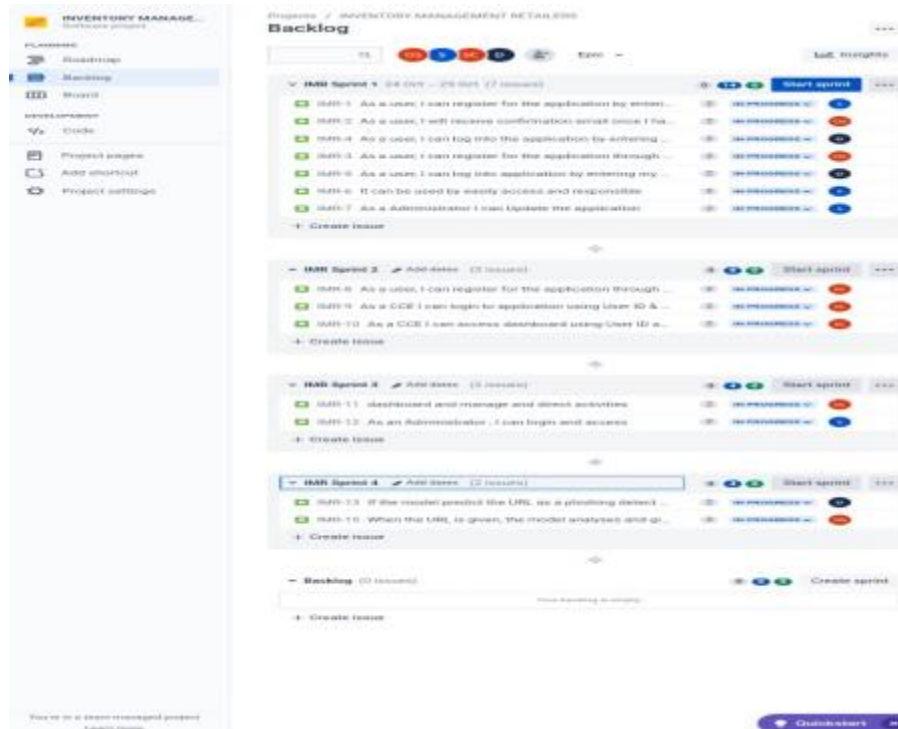
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Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	5	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	7	19 Nov 2022

## 6.3 Reports from JIRA

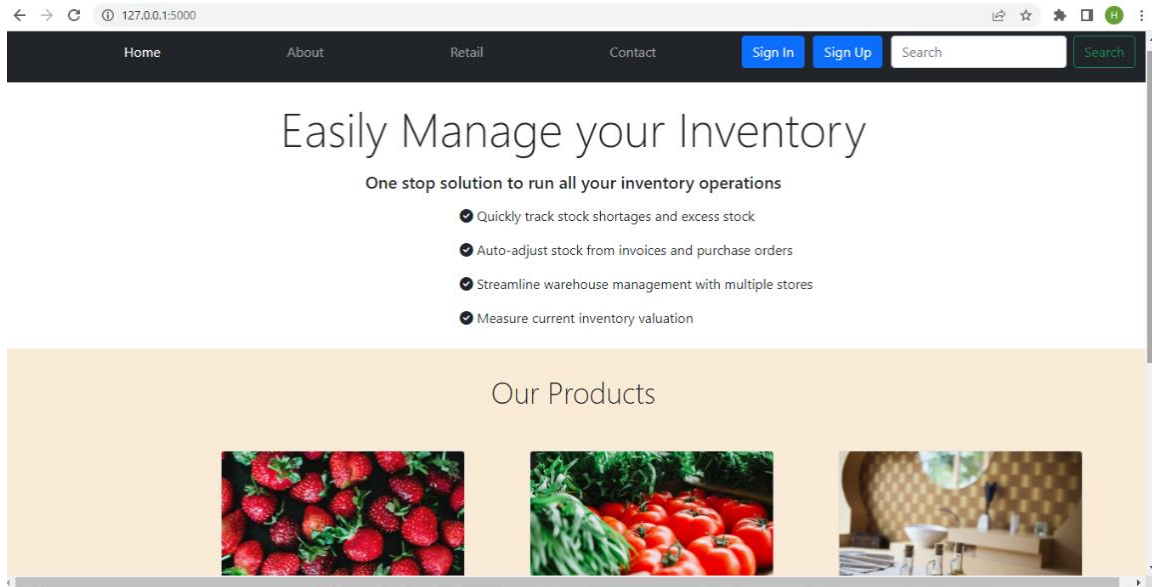


## 7. CODING & SOLUTIONING (Explain the features added in the project along with code)

### 7.1 Feature 1

Once retailers favorably transfer data from one computer system to another to the request they can renew their stock analyses, more consumers will within financial means adjoin new stock by presenting basic facts had connection with the stock. They can view analyses of the current stock. The System will inevitably transmit an electronic mail alert to the retailers if skilled is no stock about their reports. So that they can order new stock.

## HOME PAGE



```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Retail Consumer</title>
```

```
  <link
```

```
    href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/b
    ootstrap.min.css" rel="stylesheet" integrity="sha384-
    EVSTQN3/azprG1Anm3QDgpgJLIm9Nao0Yz1ztcQTWfspd3y
    D65VohhpuuCOmLASjC" crossorigin="anonymous">
```

```
    <script
```

```
    src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/boot
    strap.bundle.min.js" integrity="sha384-
    MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuN
    SfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>
```

```
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/
umd/popper.min.js" integrity="sha384-
IQsoLXI5PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwP
tgFTxbJ8NT4GN1R8p" crossorigin="anonymous"></script>
```

```
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/boot
strap.min.js" integrity="sha384-
cVKIPhGWiC2Al4u+LWgxfKTRlcfu0JTxR+EQDz/bglDoEyl4
H0zUF0QKbrJ0EcQF" crossorigin="anonymous"></script>
```

```
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.2.0/css/all.min.css" integrity="sha512-
xh6O/CkQoPOWDDdYTDqeRdPCVd1SpvCA9XXcUnZS2Fm
JNp1coAFzvtCN9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=
=" crossorigin="anonymous" referrerpolicy="no-referrer" />
```

```
<style>
.cards
{
margin-left:15%;
}
nav
{
margin-bottom: 10px;
}
section
{
background-color: antiquewhite;
padding: 30px;
}
```

```
.display-5
{
    font-size: 35px;
    font-weight:100;
    padding-bottom:40px ;
}
li
{
    list-style: none;
    text-align: left;
    margin-left:38%;
    padding: 8px;
}
h3
{
    padding: 10px;
}
.signUpbtn,.signInbtn
{
    margin-right:10px
}
</style>
```

```
<body>

    <nav class="navbar navbar-expand-lg navbar-dark bg-
dark">
    <div class="container-fluid">
```

```

        <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse"
id="navbarSupportedContent">
            <ul class="navbar-nav me-auto mb-2 mb-lg-0">
                <li class="nav-item">
                    <a class="nav-link active" aria-current="page"
href="{{url_for('index')}}">Home</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link"
href="{{url_for('about')}}">About</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="#">Retail</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="#">Contact</a>
                </li>
            </ul>
            <a href="{{url_for('signin')}}"><button type="button"
class="btn btn-primary signInbtn">Sign In</button></a>
            <a href="{{url_for('signup')}}"><button type="button"
class="btn btn-primary signUpbtn">Sign Up</button></a>
            <form class="d-flex">

```

```
        <input class="form-control me-2" type="search"
placeholder="Search" aria-label="Search">
        <button class="btn btn-outline-success"
type="submit">Search</button>
    </form>
```

```
    </div>
</div>
</nav>
```

```
    <div class="container text-center">
        <h3 class="display-4 ">Easily Manage your
Inventory</h3>
        <h5>One stop solution to run all your inventory
operations</h5>
    </div>
    <div class="list-group">
        <ul>
            <li><i class="fa-solid fa-circle-check"></i>
                Quickly track stock shortages and excess stock
            </li>
            <li><i class="fa-solid fa-circle-check"></i>
                Auto-adjust stock from invoices and purchase orders
            </li>
            <li><i class="fa-solid fa-circle-check"></i>
                Streamline warehouse management with multiple
stores
            </li>
            <li><i class="fa-solid fa-circle-check"></i>
```



Measure current inventory valuation

</li>

</ul>

</div>

<section>

<h4 class="text-center display-5">Our Products</h4>

<div class="row container cards">

<div class="col-md-4">

<div class="card" style="width: 18rem;">



<div class="card-body">

<p class="card-text">Fruits</p>

</div>

</div>

</div>

<div class="col-md-4">

<div class="card col col-4" style="width: 18rem;">



<div class="card-body">

<p class="card-text">Vegetables</p>

</div>

</div>

</div>

<div class="col-md-4">

<div class="card col col-4" style="width: 18rem;">



<div class="card-body">

```
        <p class="card-text">Oil Items</p>
    </div>
</div>
</div>
</div>
<br/>
```

```
<div class="row container cards">
    <div class="col-md-4">
        <div class="card" style="width: 18rem;">
            
            <div class="card-body">
                <p class="card-text">Stationery Items</p>
            </div>
        </div>
    </div>
    <div class="col-md-4">
        <div class="card" style="width: 18rem;">
            
            <div class="card-body">
                <p class="card-text">Cosmetics</p>
            </div>
        </div>
    </div>
    <div class="col-md-4">
        <div class="card" style="width: 18rem;">
```

```

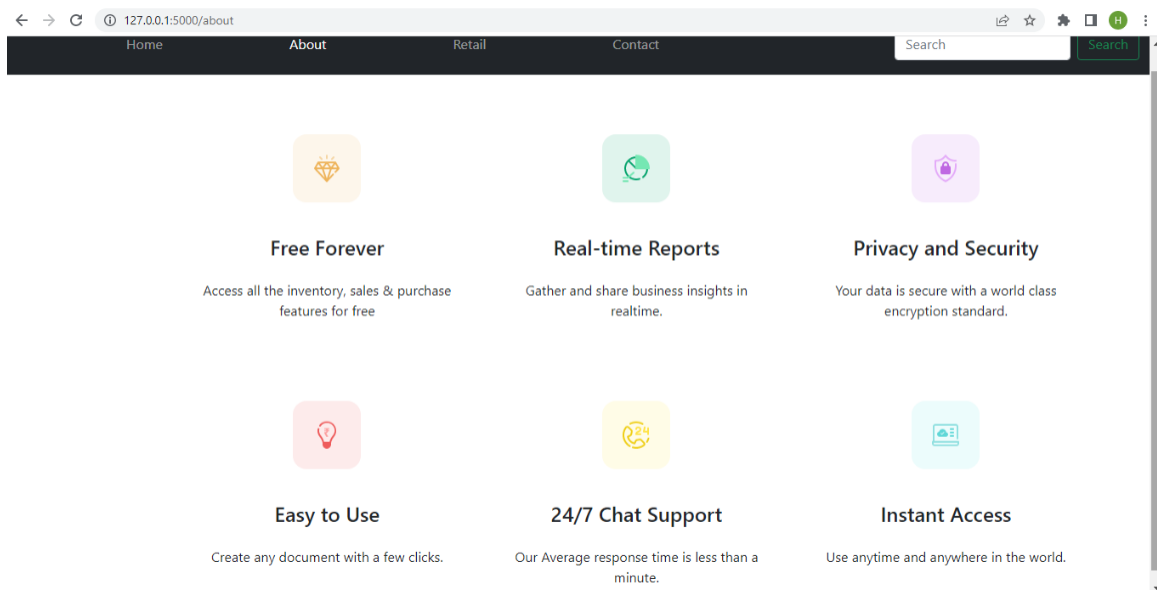
        <img src='static/softDrinks.jpeg' class="card-img-
top" alt="...">
        <div class="card-body">
            <p class="card-text">Soft Drinks</p>
        </div>
    </div>

</div>
</section>
</div>
</html>

```

## ABOUT PAGE

**The reorder reveal and other details keep the end user and the sales executive updated**



```
<!Doctype html>
<html>
  <head>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/b
ootstrap.min.css" rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3y
D65VohhpuuCOmLASjC" crossorigin="anonymous">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/boot
strap.bundle.min.js" integrity="sha384-
MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuN
SfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/
umd/popper.min.js" integrity="sha384-
IQsoLXl5PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwP
tgFTxbJ8NT4GN1R8p" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/boot
strap.min.js" integrity="sha384-
cVKIPhGWiC2Al4u+LWgxfKTRlcfu0JTxR+EQDz/bglDoEyl4
H0zUF0QKbrJ0EcQF" crossorigin="anonymous"></script>
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.2.0/css/all.min.css" integrity="sha512-
xh6O/CkQoPOWDdYTDqeRdPCVd1SpvCA9XXcUnZS2Fm
```

JNp1coAFzvtCN9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=  
=" crossorigin="anonymous" referrerpolicy="no-referrer" />

</head>

<style>

li

{

list-style: none;

text-align: left;

margin-left:38%;

padding: 8px;

}

.icon

{

height: 100px;

width:200px

}

.row

{

margin-left:13%;

margin-top: 40px;

}

img

{

padding: 30px;

}

h4,p{

padding: 8px;

}

</style>

```
<body>
  <nav class="navbar navbar-expand-lg navbar-dark bg-
dark">
    <div class="container-fluid">

      <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse"
id="navbarSupportedContent">
        <ul class="navbar-nav me-auto mb-2 mb-lg-0">
          <li class="nav-item">
            <a class="nav-link" aria-current="page"
href="{{url_for('index')}}">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link active"
href="{{url_for('about')}}">About</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">Retail</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">Contact</a>
          </li>
        </ul>
      </div>
    </div>
  </nav>
</body>
```

</ul>

<form class="d-flex">

<input class="form-control me-2" type="search"  
placeholder="Search" aria-label="Search">

<button class="btn btn-outline-success"  
type="submit">Search</button>

</form>

</div>

</div>

</nav>

<div class="row container">

<div class="col-md-4 text-center">



<h4>Free Forever</h4>

<p>

Access all the inventory, sales & purchase  
features for free

</p>

</div>

<div class="col-md-4 text-center">



<h4>Real-time Reports</h4>

<p>

Gather and share business insights in realtime.

```

    </p>
  </div>
  <div class="col-md-4 text-center">
    
    <h4>Privacy and Security</h4>
    <p>
      Your data is secure with a world class
encryption standard.
    </p>
  </div>
</div>
<div class="row container">
  <div class="col-md-4 text-center">
    
    <h4>Easy to Use</h4>
    <p>
      Create any document with a few clicks.
    </p>
  </div>

  <div class="col-md-4 text-center">
    <img
src="https://media.swipepages.com/2022/8/5fb695d1b9cd92
001005e4fe/support.svg
```

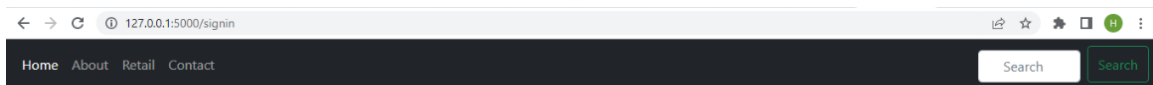


```
" alt=""><h4>24/7 Chat Support</h4>
<p>
    Our Average response time is less than a
minute.
</p>
</div>
<div class="col-md-4 text-center">
    <h4>Instant Access</h4>
<p>
    Use anytime and anywhere in the world.
</p>
</div>
</div>
</body>

</html>
```

## 7.2 Feature 2

**The next big thing to be added is user and manager login and sign up pages which includes sub features in our source code – reorder level , restock, auto-updation of temp values - null and missing values in the price section**



```
<!Doctype html>
<html>
  <head>
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/b
ootstrap.min.css" rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpgJLIm9Nao0Yz1ztcQTWfspd3y
D65VohhpuuCOmLASjC" crossorigin="anonymous">
```

```
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/boot
strap.bundle.min.js" integrity="sha384-
MrcW6ZMFYlzcLA8NI+NtUVF0sA7MsXsP1UyJoMp4YLEuN
SfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>
```

```
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/
umd/popper.min.js" integrity="sha384-
IQsoLXI5PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwP
tgFTxbJ8NT4GN1R8p" crossorigin="anonymous"></script>
```

```
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/boot
strap.min.js" integrity="sha384-
cVKIPhGWiC2Al4u+LWgxfKTRlcfu0JTxR+EQDz/bglDoEyl4
H0zUF0QKbrJ0EcQF" crossorigin="anonymous"></script>
```

```
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.2.0/css/all.min.css" integrity="sha512-
xh6O/CkQoPOWDDdYTDqeRdPCVd1SpvCA9XXcUnZS2Fm
JNp1coAFzvtCN9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=
=" crossorigin="anonymous" referrerpolicy="no-referrer" />
```

```
</head>
```

```
<style>
```

```
#signIn{
margin: auto;
margin-top:5%;
border: solid 2px none;
background-color: antiquewhite;
border-radius: 30px;
```

```
        width: 500px;
        padding: 20px;
        color: #444;
    }
    input,label
    {
        width: 200px;
        margin-left: 30%;
        text-align: center;
        margin-top: 5px;
    }
    #signInbtn
    {
        margin-top:10px ;
        margin-left: 45%;
        text-align: center;
    }
    h3{
        font-size: 30px;
        font-weight: 300;
        margin: 30px;
    }
    p{
        margin-top: 10px;
    }
    a{
        text-decoration: none;
    }
```

</style>

```
<body>
  <nav class="navbar navbar-expand-lg navbar-dark bg-
dark">
    <div class="container-fluid">

      <button class="navbar-toggler" type="button" data-
bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse"
id="navbarSupportedContent">
        <ul class="navbar-nav me-auto mb-2 mb-lg-0">
          <li class="nav-item">
            <a class="nav-link active" aria-current="page"
href="{{url_for('index')}}">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link"
href="{{url_for('about')}}">About</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">Retail</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">Contact</a>
          </li>
        </ul>
```

```

        <form class="d-flex">
            <input class="form-control me-2" type="search"
placeholder="Search" aria-label="Search">
            <button class="btn btn-outline-success"
type="submit">Search</button>
        </form>
    </div>
</div>
</nav>
<div id="signIn">
    <form>
        <h3 class="text-center ">Login</h3>
        <label >UserName</label><br/>
        <input type="text" id="UserName">
        <br/>

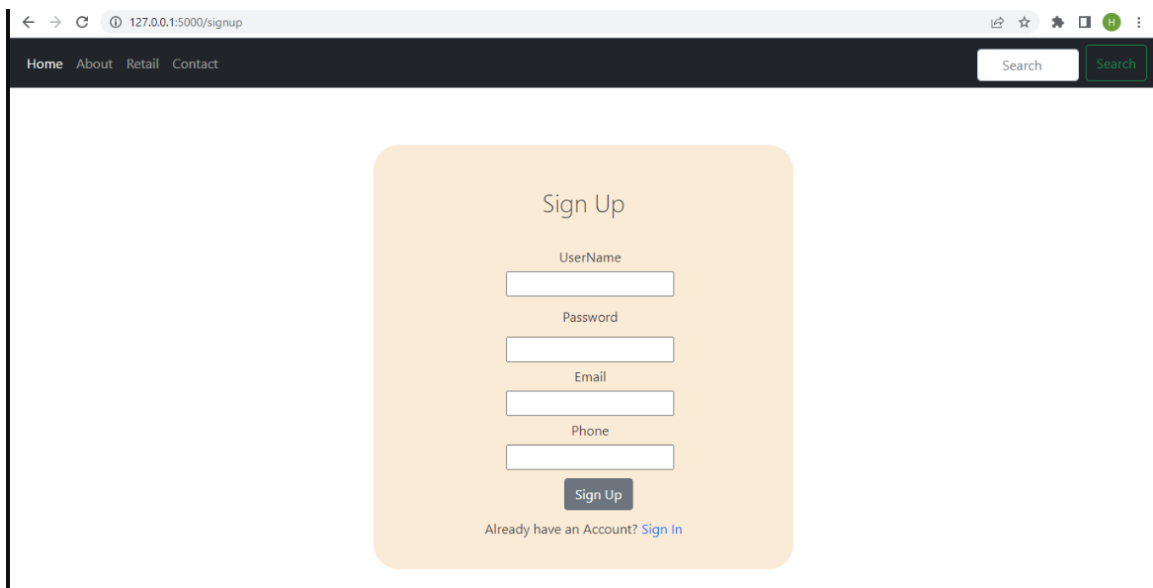
        <label for="lastName" class="col-form-
label">Password</label><br/>
        <input id="pass" type="password">
        <br/>
        <button type="submit" class="btn btn-secondary "
id="signInbtn">Sign In</button>
        <p class="text-center">Don't have an
Account?<span><a href="{{url_for('signup')}}"> Register
Now</a></span></p>
    </form>

</div>

```

</body>

</html>



<!Doctype html>

<html>

<head>

<link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">

```
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/boot
strap.bundle.min.js" integrity="sha384-
MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuN
SfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>
```

```
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/
umd/popper.min.js" integrity="sha384-
IQsoLXI5PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwP
tgFTxbJ8NT4GN1R8p" crossorigin="anonymous"></script>
```

```
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/boot
strap.min.js" integrity="sha384-
cVKIPhGWiC2Al4u+LWgxfKTRlcfu0JTxR+EQDz/bglDoEyl4
H0zUF0QKbrJ0EcQF" crossorigin="anonymous"></script>
```

```
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.2.0/css/all.min.css" integrity="sha512-
xh6O/CkQoPOWDDdYTDqeRdPCVd1SpvCA9XXcUnZS2Fm
JNp1coAFzvtCN9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=
=" crossorigin="anonymous" referrerpolicy="no-referrer" />
```

```
</head>
```

```
<style>
```

```
#signIn{
margin: auto;
margin-top:5%;
border: solid 2px none;
background-color: antiquewhite;
border-radius: 30px;
```



```
        width: 500px;
        padding: 20px;
        color: #444;
    }
    input,label
    {
        width: 200px;
        margin-left: 30%;
        text-align: center;
        margin-top: 5px;
    }
    #signInbtn
    {
        margin-top:10px ;
        margin-left: 45%;
        text-align: center;
    }
    h3{
        font-size: 30px;
        font-weight: 300;
        margin: 30px;
    }
    p{
        margin-top: 10px;
    }
    a{
        text-decoration: none;
    }

</style>
```

```
<body>
  <nav class="navbar navbar-expand-lg navbar-dark bg-
dark">
    <div class="container-fluid">

      <button class="navbar-toggler" type="button" data-
bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse"
id="navbarSupportedContent">
        <ul class="navbar-nav me-auto mb-2 mb-lg-0">
          <li class="nav-item">
            <a class="nav-link active" aria-current="page"
href="{{url_for('index')}}">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link"
href="{{url_for('about')}}">About</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">Retail</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">Contact</a>
          </li>
        </ul>
```

```

        <form class="d-flex">
            <input class="form-control me-2" type="search"
placeholder="Search" aria-label="Search">
            <button class="btn btn-outline-success"
type="submit">Search</button>
        </form>
    </div>
</div>
</nav>
<div id="signIn">
    <form>
        <h3 class="text-center ">Sign Up</h3>
        <label >UserName</label><br/>
        <input type="text" id="UserName">
        <br/>

        <label for="lastName" class="col-form-
label">Password</label><br/>
        <input id="pass" type="password">
        <br/>
        <label>Email</label><br/>
        <input id="email" type="email"><br/>
        <label>Phone</label>
        <input id="phone" type="text"><br/>
        <button type="submit" class="btn btn-secondary "
id="signInbtn">Sign Up</button>
        <p class="text-center">Already have an
Account?<span><a href="{{url_for('signin')}}"> Sign
In</a></span></p>
    </form>

```

```
</div>
```

```
</body>
```

```
</html>
```

CODE FOR RETAIL AND LIST WHICH INCLUDE  
REORDER AND AUTO UPDATION OF NULL PRICE  
ENTRIES

```
<!doctype html>
```

```
<html>
```

```
<body>
```

```
<a href="Retail.html"><button >Home</button></a>
```

```
<br><hr>
```

```
<table border = 1>
```

```
<thead>
```

```
<td>Username</td>
```

```
<td>Email</td>
```

```
<td>Password</td>
```

```
</thead>
```

```
<tr>
```

```
<td></td>
```

<td></td>

<td></td>

</tr>

</table>

</body>

</html>

---

<html>

<head>

<title>Retail Consumer</title>

<link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-MrcW6ZMFYIzcla8NI+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>

<script

src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js" integrity="sha384-

```
IQsoLXI5PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwP
tgFTxbJ8NT4GN1R8p" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/boot
strap.min.js" integrity="sha384-
cVKIPhGWiC2Al4u+LWgxfKTRlcfu0JTxR+EQDz/bglodoEyl4
H0zUF0QKbrJ0EcQF" crossorigin="anonymous"></script>
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.2.0/css/all.min.css" integrity="sha512-
xh6O/CkQoPOWDdYTDqeRdPCVd1SpvCA9XXcUnZS2Fm
JNp1coAFzvtCN9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=
=" crossorigin="anonymous" referrerpolicy="no-referrer" />
    <style>
    li
    {
        list-style: none;
        text-align: left;
        margin-left:38%;
        padding: 8px;
    }
    a
    {
        text-decoration: none;
        text-align:left;
        color: #000;
    }
    </style>

</head>
```

```
<body>
  <nav class="navbar navbar-expand-lg navbar-dark bg-
dark">
    <div class="container-fluid">

      <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse"
id="navbarSupportedContent">
        <ul class="navbar-nav me-auto mb-2 mb-lg-0">
          <li class="nav-item">
            <a class="nav-link active" aria-current="page"
href="Index.html">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="About.html">About</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="Retail.html">Retail</a>
          </li>
          <li class="nav-item">
            <a class="nav-link"
href="contact.html">Contact</a>
          </li>
```

</ul>

<form class="d-flex">

<input class="form-control me-2" type="search"  
placeholder="Search" aria-label="Search">

<button class="btn btn-outline-success"  
type="submit">Search</button>

</form>

</div>

</div>

</nav>

<ul id="myMenu">

<li><a href="#">HTML</a></li>

<li><a href="#">CSS</a></li>

<li><a href="#">JavaScript</a></li>

<li><a href="#">PHP</a></li>

<li><a href="#">Python</a></li>

<li><a href="#">jQuery</a></li>

<li><a href="#">SQL</a></li>

<li><a href="#">Bootstrap</a></li>

<li><a href="#">Node.js</a></li>

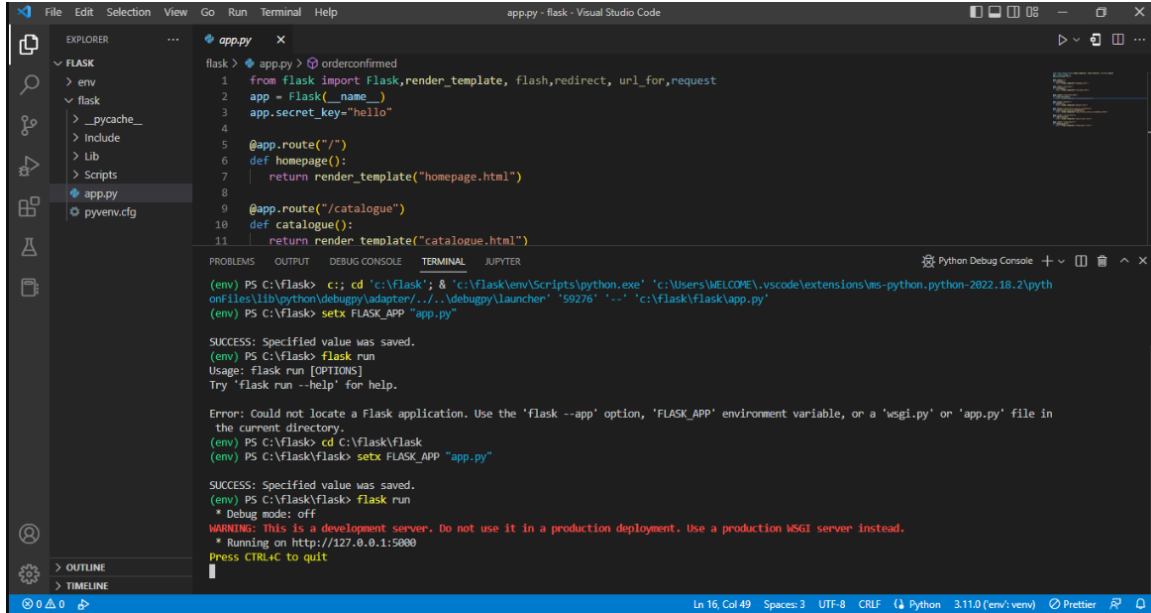
</ul>

</body>

</html>



## 7.3 Database Schema (if Applicable)



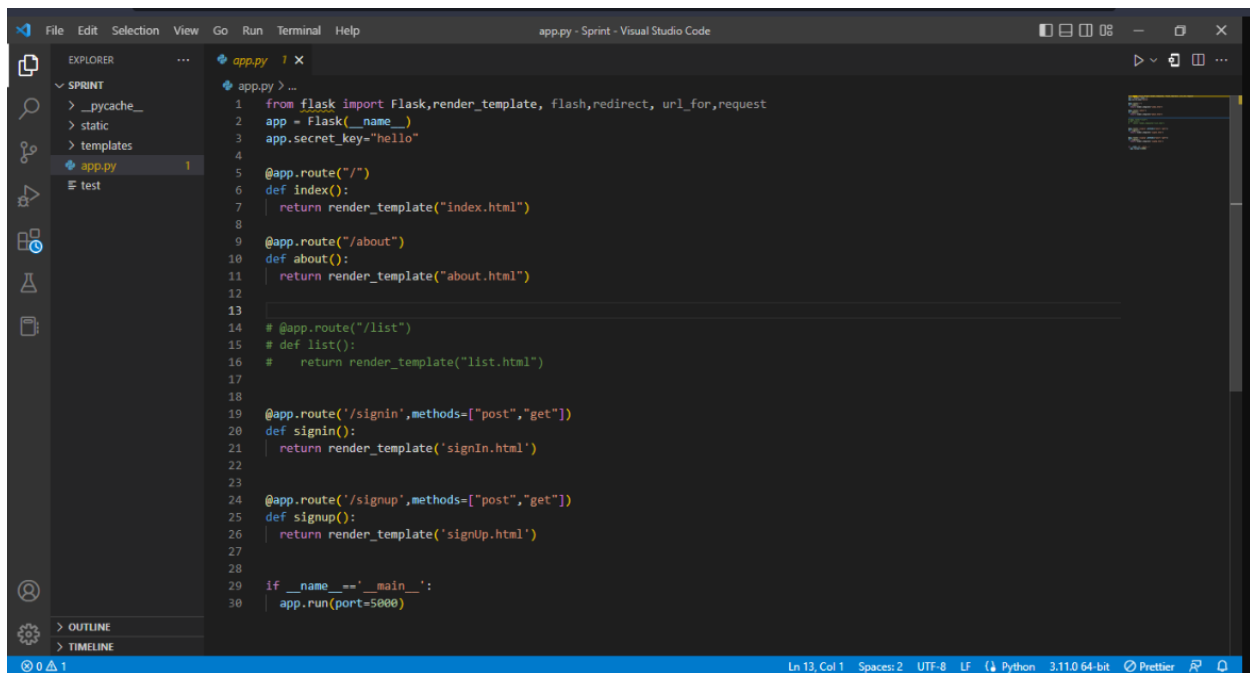
```
flask > app.py > orderconfirmed
1 from flask import Flask,render_template, flash,redirect, url_for,request
2 app = Flask(__name__)
3 app.secret_key="hello"
4
5 @app.route("/")
6 def homepage():
7     return render_template("homepage.html")
8
9 @app.route("/catalogue")
10 def catalogue():
11     return render_template("catalogue.html")
```

```
(env) PS C:\flask> cd 'c:\flask'; & 'c:\flask\env\Scripts\python.exe' 'c:\Users\WELCOME\.vscode\extensions\ms-python.python-2022.18.2\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '59276' '-.' 'c:\flask\flask\app.py'
(env) PS C:\flask> setx FLASK_APP "app.py"

SUCCESS: Specified value was saved.
(env) PS C:\flask> flask run
Usage: flask run [OPTIONS]
Try 'flask run --help' for help.

Error: Could not locate a Flask application. Use the 'flask --app' option, 'FLASK_APP' environment variable, or a 'wsgi.py' or 'app.py' file in the current directory.
(env) PS C:\flask> cd C:\flask\flask
(env) PS C:\flask\flask> setx FLASK_APP "app.py"

SUCCESS: Specified value was saved.
(env) PS C:\flask\flask> flask run
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
```



```
app.py > -
1 from flask import Flask,render_template, flash,redirect, url_for,request
2 app = Flask(__name__)
3 app.secret_key="hello"
4
5 @app.route("/")
6 def index():
7     return render_template("index.html")
8
9 @app.route("/about")
10 def about():
11     return render_template("about.html")
12
13
14 # @app.route("/list")
15 # def list():
16 #     return render_template("list.html")
17
18
19 @app.route('/signin',methods=["post","get"])
20 def signin():
21     return render_template('signIn.html')
22
23
24 @app.route('/signup',methods=["post","get"])
25 def signup():
26     return render_template('signUp.html')
27
28
29 if __name__ == '__main__':
30     app.run(port=5000)
```

## 8. TESTING

### 8.1 Test Cases

Testcases Report.xlsx - LibreOffice Calc										
File Edit View Insert Format Styles Sheet Data Tools Window Help										
Calibri 11 pt B I U A % 0.0 0.00 0.00										
G13										
1	C	D	E	F	G	H	I	J	K	L
2			Date	06-Nov-22						
3			Team ID	PNT2022TMD14833						
4			Project Name	Inventory Management System For Retail						
5	Component	Test Scenario	Pre-Req	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation(Y/N)
6	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	<a href="https://shopnizer.com/">https://shopnizer.com/</a>	Login/Signup popup should display	Working as expected	Pass		
7	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. Lost password? Recovery password link	<a href="https://shopnizer.com/">https://shopnizer.com/</a>	Application should show below UI elements: a. email text box b. password text box c. Login button with orange colour d. New customer? create account link e. Lost password? Recovery password link	Working as expected	Pass	Steps are not clear to follow	BUG-1234
8	Home page	Verify user is able to log into application with valid credentials		1. Enter URL( <a href="https://shopnizer.com/">https://shopnizer.com/</a> ) 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: harsh701@gmail.com password: test123	User should navigate to user account homepage	Working as expected	Pass		
9	Login page	Verify user is able to log into application with invalid credentials		1. Enter URL( <a href="https://shopnizer.com/">https://shopnizer.com/</a> ) 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: harsh701@gmail.com password: Testing123	Application should show 'incorrect email or password' validation message.	Working as expected	Pass		
10	Login page	Verify user is able to log into application with invalid credentials		1. Enter URL( <a href="https://shopnizer.com/">https://shopnizer.com/</a> ) and click go 2. Click on My Account dropdown button 3. Enter valid username/email in email text box 4. Enter invalid password in password text box 5. Click on login button	Username: harsh701@gmail.com password: Testing1236788678676876	Application should show 'incorrect email or password' validation message.	Working as expected	Pass		
11	Login page	Verify user is able to log into application with invalid credentials		1. Enter URL( <a href="https://shopnizer.com/">https://shopnizer.com/</a> ) 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: harsh701@gmail.com password: Testing1236788678676876	Application should show 'incorrect email or password' validation message.	Working as expected	Pass		
12										
13										
Sheet 1 of 2 PageStyle:Shopnizer Testcases English (India) Average: Sum: 0										

### 8.2 User Acceptance Testing

#### ***Purpose of Document***

The purpose of this document is to briefly explain the test coverage and open issues of the INVENTORY MANAGEMENT SYSTEM project at the time of the release to User Acceptance Testing (UAT).

#### ***Defect Analysis***

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

Resolution	Severity1	Severity2	Severity3	Severity4	Subtotal
By Design	10	4	2	3	20
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	37
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won'tFix	0	5	2	1	8
Totals	24	14	13	26	77

### ***TestCaseAnalysis***

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

Section	TotalC ases	Not Tested	Fa il	Pa ss
Print Engine	7	0	0	7
Client Application	51	0	0	51
Security	2	0	0	2
Out source Shipping	3	0	0	3
Exception Reporting	9	0	0	9
Final Report Output	4	0	0	4
Version Control	2	0	0	2

## 9. RESULTS

### 9.1 Performance Metrics

Software characteristic is a calculation of entity obscured,  
“by what method good” a  
spreadsheet device genuinely is. Some of the facets of oper  
ating system characteristic captured  
are

- a. Scalability
- b. Speed
- c. Stability
- d. Reliability
- e. Security
- f. Maintainability and rule characteristic

Test Case ID	Action	Steps	Input Data	Expected Results	Actual Results	Status
TC-1	Invoice No.	Enter Invoice No.	Input "10121"	It should accepted Invoice no.	Invoice no. is accepting	Pass
TC-2	Bill Date	Enter Bill date	Input "17/10/2021"	It should accepted Bill date	Bill date is accepting	Pass
TC-3	Supplier	Select Supplier		Supplier name	Supplier name is	Pass
TC-4	Item name(options)	Select Item name		Item name should be automatically reflected	Item name is reflecting automatically	Pass
TC-5	Available item stock	Click on Textbox	-	It should reflect automatically item stock.	item stock is reflecting automatically	Pass

TC-6	Quantity	Enter Item quantity	Input "5"	Item quantity should be accepted	Item quantity is accepting	Pass
TC-7	Price(unit)	Click on Textbox	-	Price should be reflected automatically	Price is reflecting automatically	Pass
TC-8	Total(unit)	Click on Textbox	-	Total should be reflected automatically	Total is reflecting automatically	Pass
TC-9	Receive Bill date	Enter Receive Bill date	Input "17/10/2021"	Receive Bill date should be accepted	Receive Bill date is accepting	Pass
TC-10	Add item	Click on add item	-	It should be add item reflected in database	Add item is reflecting in database	Pass

## 10. **ADVANTAGES**

- Cost efficient
- Customer service is increased by a large way
- Increases a the planning for the business to expand
- The amount of time saved in the process is huge.
- Real-time stock- following helps to increase stock administration and guarantees that you have optimum stock feasible to confirm orders.

## **DISADVANTAGES**

- Online inventory system maybe prone to hackers if not properly secured
- so security is a major concern unless done in an authorized way
- At times due to network traffic delay in payments and inventory can cause certain issues.

## 11. **CONCLUSION**

Inventory control is a completely complicated however important a part of the deliver chain. An powerful stock control machine facilitates to lessen stock-associated fees which include warehousing, carrying, and ordering fees.

Indeed the task of Management is innovative trouble fixing. This innovative trouble fixing is achieved via 4 capabilities of management: planning, organising, main and controlling. The meant end result is the usage of an organisation`s sources in a manner that accomplishes its venture and objectives

## 12. **FUTURE SCOPE**

- **To improve the maximum outcome**

as the Inventory control allows to enhance the productiveness of the machines and manpower. Employees are aware about shares and the amount that require to produce.

- **IMPROVING THE SECURITY ASPECT OF IT**

### 13. **APPENDIX**

#### Source Code

```
1) kubernetes apiVersion: v1
```

```
kind: ServiceAccount
```

```
metadata:
```

```
  name: admin-user
```

```
  namespace: kubernetes-dashboard
```

```
---
```

```
apiVersion: v1
```

```
kind: Secret
```

```
metadata:
```

```
  name: admin-user-token
```



```
namespace: kubernetes-dashboard
annotations:
  kubernetes.io/service-account.name: admin-user
type: kubernetes.io/service-account-token
```

---

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
  name: admin-user
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: ClusterRole
  name: cluster-admin
subjects:
- kind: ServiceAccount
  name: admin-user
  namespace: kubernetes-dashboard
```

## FLASK DEPLOYMENT

```
apiVersion: apps/v1
kind: Deployment
```

metadata:

name: flask-app

spec:

replicas: 3

selector:

matchLabels:

app: flask-app

template:

metadata:

labels:

app: flask-app

spec:

containers:

- name: web

image: Abinaya/flask

imagePullPolicy: Never

ports:

- containerPort: 5000

protocol: TCP

## IBM CLOUD DEPLOYMENT

apiVersion: apps/v1

kind: Deployment

metadata:

name: flask-deploy

spec:

replicas: 3

selector:

matchLabels:

app: flask-deploy

template:

metadata:

labels:

app: flask-deploy

spec:

containers:

- name: web

image: jp.icr.io/website/web

imagePullPolicy: Always

ports:

- containerPort: 5000

protocol: TCP

FLASK FILE :

```
from flask import Flask,render_template
app=Flask(__name__)
```

```
@app.route('/home')
```

```
def home():
```

```
    return render_template('home.html')
```

```
@app.route('/signin')
```

```
def signin():
```

```
    return render_template('signin.html')
```

```
@app.route('/about')
```

```
def about():
```

```
    return render_template('about.html')
```

```
@app.route('/signup')
```

```
def signup():
```

```
    return render_template('signup.html')
```

```
if __name__=='__main__':
```

```
app.run()
```

DOCKER ACCESS

FROM python:3.10.4

WORKDIR /app

COPY requirements.txt ./

RUN pip install -r requirements.txt

COPY . .

EXPOSE 5000

CMD ["python", "./app.py"]

GitHub Link

<https://github.com/IBM-EPBL/IBM-Project-10510-1659183638>

Project-Demo Link

<https://drive.google.com/file/d/1TmZrJ14ohvC6gSEGN2b-AFevOcPJGKNG/view?usp=drivesdk>

