Retail Store Stock Inventory Analytics

ProjectReport

submitted By

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Project Report

Source Code

GitHub & Project Demo Link

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1.1 PROJECT OVERVIEW

Inventory management is one of the pillars of a successful retail operation. Retail store stock inventory management techniques help stores and ecommerce sellers satisfy customers, reduce costs and increase profits.

1..2 PURPOSE

The purpose of the Retail Store Stock inventory Analytics 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.

In practice, effective retail store stock inventory management results in lower costs and a better understanding of sales patterns. Retail Store stock inventory analysis tools and methods give retailers more information with which to run their businesses, including:

- Product locations
- Quantities of each product type
- Which stock sells well and which doesn't, by location and sales channel.
- Profit margin by style, model, product line or item
- Ideal amount of inventory to have in back stock and storage
- How many products to reorder and how often
- When to discontinue a product
- How changing seasons affect sales

2. LITERATURE SURVEY

2.1 Existing problem

1.Customer segments(S)

- •Retailer
- Distributor
- Wholesaler
- Manufacturer

2.Jobs-to-be-Done/Problems

• Help the customer face uncertainties in supply and demand.

- Prevent the customer from loss in both financial & ethical side.
- Keep the customer up-to-date about current market trends.
- Make small retailers also survey in the rapidly changing market

3. Triggers

- Problems that plague the customer's business.
- Advertisements and recommendations from colleagues who used our software.
- Tempted by competitors who have succeeded using our software.

4.Customer Constraints

- Inadequate of knowledge about current technological trend
- · Always depends on traditional approaches.
- Mistrust on using new methods

5. Problem Root Cause

- Most shopkeepers lose their customers due to insufficient supply.
- They also don't want to overstock a product.

2.2 References

- Agrawal, N., & Smith, S. A. (2003). Optimal retail assortments for substitutable items purchased in sets. Naval Research Logistics (NRL), 50(7), 793-822.
- Alldredge, K., Brown, B. & Magni, M. (2016 June). Playing catch-up: How to partner with the retailer of the future. McKinsey. Retrieved from https://www.mckinsey.com/
- Bageria, V. (2018, April 6). Think Tank: New Age of Retailing and Big Data Analytics.
 Retrieved on 2018, August 23 from https://wwd.com/business-news/retail/new-age-of-retailing-big-dataanalytics-think-tank-1202643944/
- Bala, P. (2010). A Review on Retail Inventory Management with Purchase Dependency.
 International J. Of Recent Trends In Engineering And Technology, 3(2), 84-87.
- Bursa, K. (2015, September 29). "Curve Shifting" on the Efficient Frontier. Retrieved on 2018, August 23 from https://www.logility.com/blog/karin-bursa/september-

2015/curveshifting%E2%80%9D-on-the-efficient-frontier.

2.3 Problem Statement Definition

In most of the analytics generally insufficient access of/to information would lead to miscommunications issues. Every department of inventory needs to have access to data that is crucial to their analytics and development process. Because of the Impact of the lack of clear access is not limited to individual processes. But it also affects the complete retail inventory management.

We can simplify our accessibility issues with retail inventory management analytics. The analytics can efficiently manage access, which would, in turn, improve the quality of the process and productivity of the team

Retailers get clear ideas about the trending and demands that are currently exist. So, they will have more awareness about the future needs of customers .

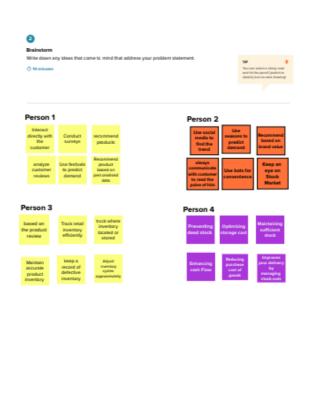
3. IDEATION & PROPOSED SOLUTION

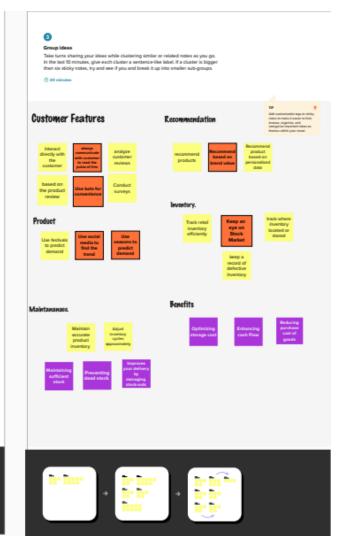
3.1 Empathy Map Canvas

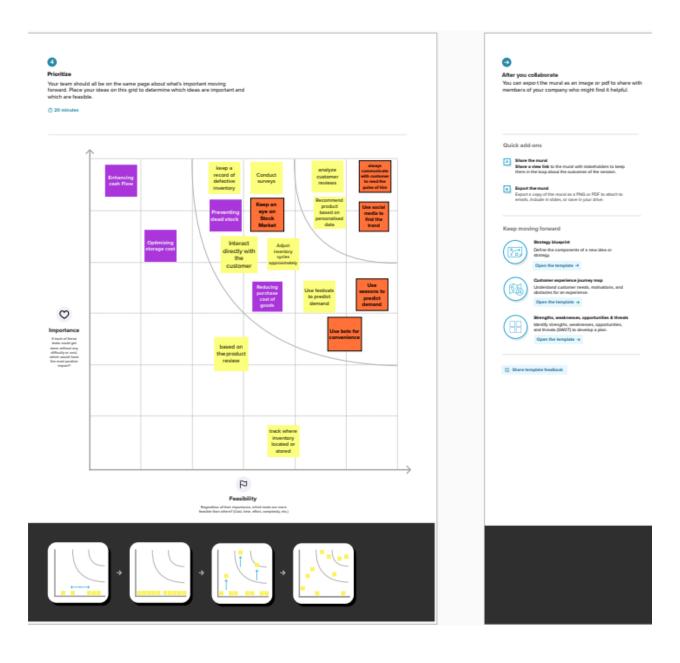


3.2 Ideation & Brainstorming









3.3 Proposed Solution

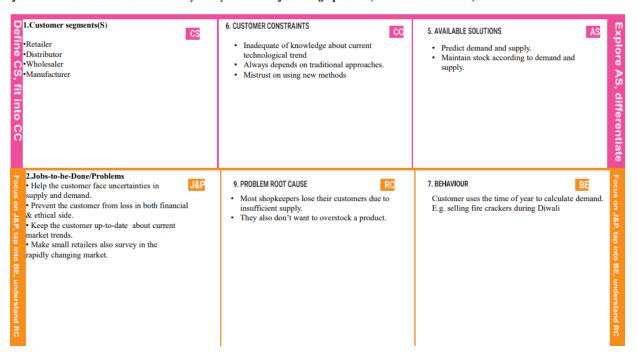
Project Design Phase-I Proposed Solution Template

Date	20 September 2022			
Team ID	PNT2022TMID33075			
Project Name	Project – Retail Store Stock Inventory Analytics			

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In most of the analytics generally insufficient access of/to information would lead to miscommunications issues. Every department of inventory needs to have access to data that is crucial to their analytics and development process. Because of the Impact of the lack of clear access is not limited to individual processes. But it also affects the complete retail inventory management.
2.	Idea / Solution description	We can simplify our accessibility issues with retail inventory management analytics. The analytics can efficiently manage access, which would, in turn, improve the quality of the process and productivity of the team.
3.	Novelty / Uniqueness	Retailers get clear ideas about the trending and demands that are currently exist. So, they will have more awareness about the future needs of customers also. With use of IBM Cognos analytics tools, we can give clear and practical data about needs and trending.
4.	Social Impact / Customer Satisfaction	Because of the clear access of data retailers can give customer demands easily and retailers can provide products they demand. This leads to outstanding customer satisfaction
5.	Business Model (Revenue Model)	When the customer needs are satisfies, Retailers have generating financial income or revenue relatively. Retailers can identify which revenue source to pursue, how to price, and which kind of people going to purchase it.
6.	Scalability of the Solution	Our solution is suitable for all kind of people who have a retail store no matter whether they small or big in the market, because everyone needs clear access of the data and information

3.4 Problem Solution-Fit

pject Title: Retail Store Stock Inventory Analysis Project Design phase -I(Problem-Solution Fit) Team ID:PNT2022TMID3307



3. TRIGGERS • Problems that plague the customer's business. • Advertisements and recommendations from colleagues who used our software. • Tempted by competitors who have succeeded using our software. 4. EMOTIONS: BEFORE / AFTER Before: • Confused • Diffident After: • Clear • Confident	Create a software that can predict the demand. Use customer business data that has been collected over the years to train and test the algorithm .	8.Channels of behavior 1.ONLINE: Advertisements are posted in social media sites. 2.OFFLINE: Good customer service helps gaining customer loyalty.	Identify strong TR & EM
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4. REQUIREMENT ANALYSIS

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form.
		Registration through Gmail.
		Registration through LinkedIn.
FR-2	User Confirmation	Confirmation via Email.
		Confirmation via OTP.
		Confirmation via Business whatsapp.
FR-3	User Login	Login with Email.
		Login with Username & Password.
		Login with OTP.
FR-4	User Profile	Personal information of user such as name, contact details.
		Professional information of user such as buying & selling
		details, profit & loss details.
FR-5	Data Gathering	Collect data from users, collect other resources from
		various platforms (E.g. Weather, Trending).
FR-6	Reviews	Getting commends and feedbacks from users.

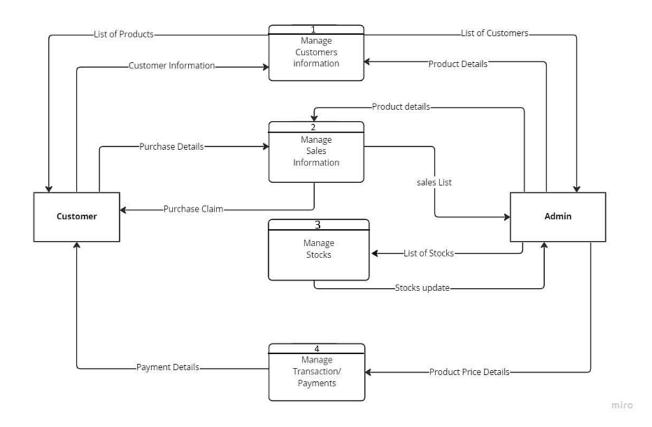
Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Clear and intricacies User Interface, Unobtrusive responsiveness for all kind of users (small, big owners of retail stocking).
NFR-2	Security	Only authorized people can access the resources. Provide security for owner's details & data.
NFR-3	Reliability	Assured to Provide accurate information about products, so users don't want to suffer for overstocking & understocking.
NFR-4	Performance	The system can handle multi data about multi products of multi retailers. The system will be designed for capable of seamless performance.
NFR-5	Availability	The system can give information that user demand from the data they given. All time availability of information gives user more visibility about the stocks and other stock related information.
NFR-6	Scalability	System can support many number of users at the time. Also support very few users without any underwhelming.

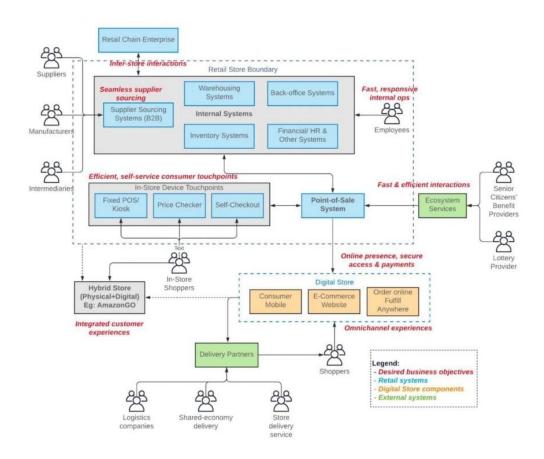
5. PROJECT DESIGN

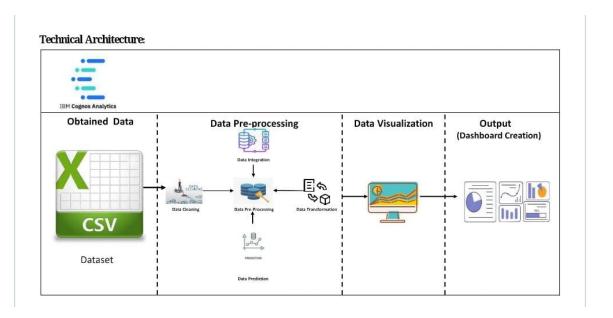
5.1 Data Flow Diagrams



5.2 Solution & Technical Architecture

Solution Architecture:





5.3 User Stories

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story/Task	Acceptance criteria	Priority	Release
Customer (Retailer)	Registration	USN-1	As a user I can register with the application using my mail-id , username and password	I can access my account	High	Sprint-1
	Confirmation	USN-2	As a user, I can confirm using WhatsApp/OTP/e- mail	I can confirm that I want to create an account log in	Low	Sprint-1
	Registration through Facebook	USN-3	As a user , I can register for the application using Facebook	I can register directly using Facebook	Low	Sprint-1
	Registration through Google	USN-4	As a user, I can register for the application using Google	I can register directly using Google	Medium	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story/Task	Acceptance criteria	Priority	Release
Customer (Retailer)	Login	USN-5	As a user, I can login after confirmation	I can access my account/dashboard	High	Sprint-1
	Dashboard	USN-6	As a user, I can view dashboard	I can access my Dashboard	High	Sprint-2
	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	I can view the new stocks	High	Sprint-2
	Search products	USN-8	As a user I can search through the product using barcode	I can search for products with more demand	Medium	Sprint-2
	Report generation	USN-9	As a user I can generate reports based on product sales	I can generate reports	High	Sprint-3
User Type	Functional Requirement (Epic)	User Story Number	User Story/Task	Acceptance criteria	Priority	Release
Customer (Retailer)	Stock Prediction	USN-10	As a user I can predict out of stock and less stock for a product	I can predict stock value	High	Sprint-3
	Notification system	USN-11	As a user I can view notification for expired and out of stock products	I can get notified the stock updates	High	Sprint-4
	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	I can order more stocks	High	Sprint-4
	Updating stock	USN-13	As a user I can add/delete products	I can add/delete my products	High	Sprint-2
	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	I can generate a bill	High	Sprint-4

User Type	Functional Requirement (Epic)	User Story Number	User Story/Task	Acceptance criteria	Priority	Release
Customer (Retailer)	Discount system	USN-15	As a user I can provide discount based on credit points	I can provide discount to my customers	Medium	Sprint-4

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

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 entering my email, password, and confirming my password.	2	High	Alan M Asiq Rahman A
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Asiq Rahman A Balaji M
Sprint-1	Registration through Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	Alan M Balaji M
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the application through Gmail	2	Medium	Alan M Asiq Rahman A
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Balaji M Michael Danieal N
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and can perform stock prediction and analysis	3	High	Asiq Rahman A Balaji M Michael Danieal N
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	Alan M Balaji M
Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Alan M Balaji M
Sprint-3	Report generation	USN-9	As a user I can generate reports based on product sales	5	High	Alan M Balaji M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Stock Prediction	USN-10	As a user I can predict out of stock and less stock for a product	5	High	Asiq Rahman A Balaji M
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out of stock products	4	High	Alan M Balaji M
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Asiq Rahman A Balaji M
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	Balaji M Michael Danieal N Alan M Asiq Rahman A
Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes, discount and calculate credits	4	High	Alan M Balaji M
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Asiq Rahman A Balaji M

6.2 Sprint Delivery Schedule

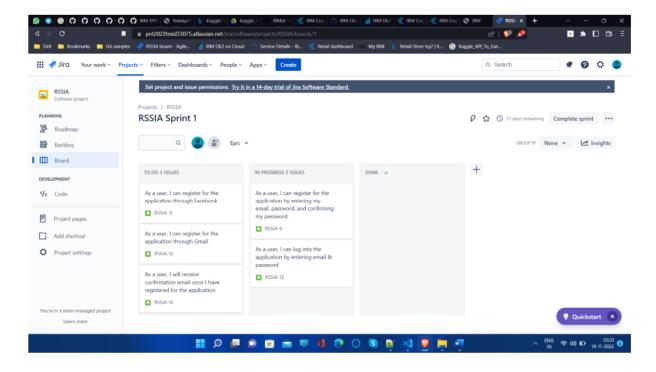
Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	6	6 Days	24 Oct 2022	29 Oct 2022	6	29 Oct 2022
Sprint-2	16	6 Days	31 Oct 2022	05 Nov 2022	16	05 Nov 2022
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022
Sprint-4	14	6 Days	14 Nov 2022	19 Nov 2022	14	19 Nov 2022

6.3 Reports from JIRA

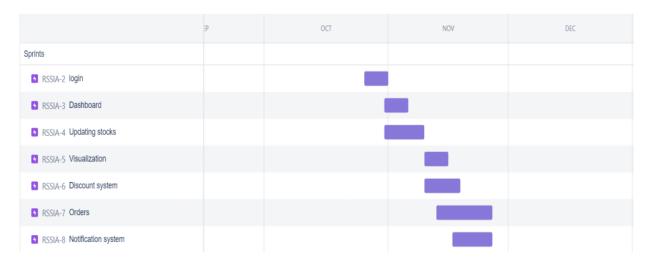
Burndown Chart:

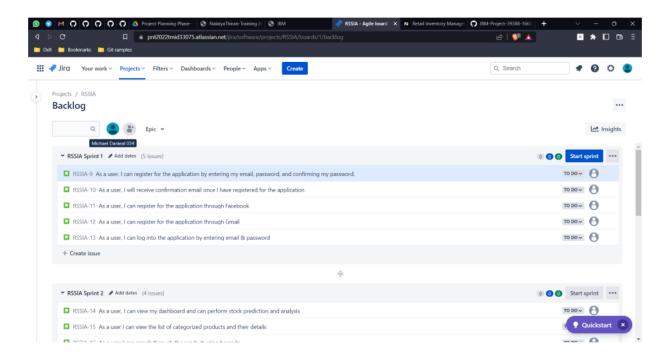
A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.



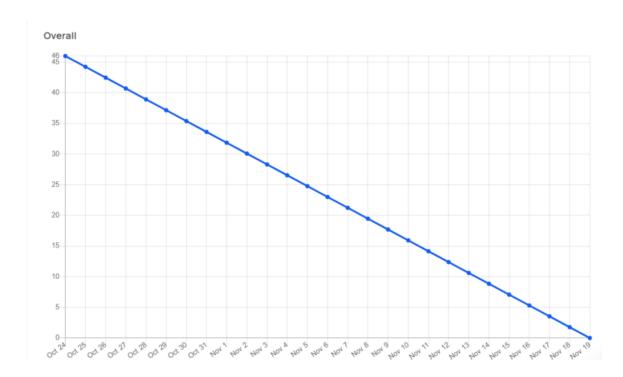
Project Planning Tool:

Roadmap:





Overall burndown chart:



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

7.1 Feature 1

```
<!DOCTYPE html>
<html>
  <head>
   k rel="stylesheet" href="background_styles.css">
   <link rel="stylesheet" href="styles.css">
   <script src="script.js" defer></script>
   <title>Retail Store Stock Inventory Analysis</title>
  </head>
  <body>
   <nav class="navbar">
    <div class="brand-title">Retail Store Stock Inventory Analysis</div>
    <a href="#" class="toggle-button">
     <span class="bar"></span>
     <span class="bar"></span>
     <span class="bar"></span>
              <span class="bar"></span>
    <div class="navbar-links">
     <l
      <a href="#dashboard">Dashboard</a>
      <a href="#report">Report</a>
      <a href="#story">Story</a>
                    <a href="#about">About</a>
     </div>
   </nav>
       <article>
                    <section id="dashboard">
                           <center><b><h3>Dashboard:</h3></b></center>
                           <iframe
```

src="https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.public_folder s%2Ffinal%2FProject%2BDashboard_&closeWindowOnLastView=true&ui_appbar=fals e&ui_navbar=false&shareMode=embedded&action=view&mode=dashboard

&subView=model000001848eb8836d_00000000" width="1500" height="550" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>

</article>
<hr>
<article>
<article>
<section id="report">
<center><h3>Report:</h3></center>
<iframe

src="https://us3.ca.analytics.ibm.com/bi/?pathRef=.my_folders%2FProject%2Breport&clos eWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=embe dded&action=run&format=HTML&prompt=false" width="1500" height="650" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>

</article>
</article>
<hr>
<article>
<section id="story">
<center><h3>Story:</h3></center>
<iframe

src="https://us3.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_folders%2FProject%2Bstory&closeWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=embedded&action=view&sceneId=model000001848a441856_000000000&sceneTime=2500" width="1500" height="550" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>

</section>

```
</article>
           <hr>
           <article>
                 <section id="about">
                 <center><b><h3>About<h3></b></center>
                 <center>A simple and understandable representation of sales data that
helps the retailer
                 determine the right amount of stock to keep on-hand to fill demand while
avoiding spending too much on inventory storage.
                 </center>
                 <center>
                 Hope you Like our website<br>
                 Thank you for guiding us
                 </center>
                 <center>
                 <h3><b>Analysts:</b></h3>
                 </center>
                 <center>
                 Balaji M
                                  :820419205011
                 Asiq Rahman A :820419205009
                 Alan M
                                  : 820419205005
                 Michael Danieal N :820419205034
                 </center>
                 </section>
           </article>
 </body>
</html>
style.css
```

```
* {
box-sizing: border-box;
}body {
margin: 0;
  padding: 0;
}.navbar {
  display: flex;
  position: relative;
  justify-content: space-between;
  align-items: center;
  background-color: #1E90FF;
  color: white;
}.brand-title {
  font-size: 1.5rem;
  margin: .5rem;
}.navbar-links {
  height: 100%;
}.navbar-links ul {
  display: flex;
  margin: 0;
  padding: 0;
}.navbar-links li {
  list-style: none;
}.navbar-links li a {
  display: block;
  text-decoration: none;
```

```
color: white;
  padding: 1rem;
}.navbar-links li:hover {
  background-color: #555;
}.toggle-button {
  position: absolute;
  top: .75rem;
  right: 1rem;
  display: none;
  flex-direction: column;
  justify-content: space-between;
  width: 30px;
  height: 21px;
}.toggle-button .bar {
  height: 3px;
  width: 100%;
  background-color: white;
  border-radius: 10px;
}@media (max-width: 800px) {
  .navbar {
    flex-direction: column;
    align-items: flex-start;
  } .toggle-button {
    display: flex;
  }.navbar-links {
    display: none;
```

```
width: 100%;
  }.navbar-links ul {
    width: 100%;
flex-direction: column;
  } .navbar-links ul li {
    text-align: center;
  }.navbar-links ul li a {
    padding: .5rem 1rem;
  }.navbar-links.active {
    display: flex;
  }}
background_styles.css
@import url('https://fonts.googleapis.com/css?family=Raleway');
* {
  font-family: Raleway;
}
html {
  background-color: #DFDFDF;
}
script.js
const toggleButton = document.getElementsByClassName('toggle-button')[0]
const navbarLinks = document.getElementsByClassName('navbar-links')[0]
toggleButton.addEventListener('click', () => {
 navbarLinks.classList.toggle('active')
})
```

8. TESTING

8.1 Test Cases

Test cas	e ID	no1			Test cas	se d	escription	: Test the	functionali	ty of the cre	ated webs	ite
Created by :		Michael Danieal N			Review	ed by :		Alan M		version:	1	
Tester's	Name :	Michael D	anieal N		Date Te	ste	d :	Novembe	r 19,2022	Test case(Pass/Fail):	Pass
	Prerequisites :				S.NO		Test data					
	1 Connection to the internet					1	ID: alan					
	2 Access to any browser					2	password	: alan				
Test sce	enario :	verify the	login deta	ails of a user v	when the	eir o	letails are	entered				
	Step	Expected results		Actual results			Pass/Fail					
	1 Enter Link	Site opens		Site opens			Pass					
	2 Enter userID and password	Enter user	details	AS Expecte	ed		Pass					
	3 Click login	Log into th	ne site	Logged in			Pass					

8.2 User Acceptance Testing

8.2.1. Purpose of Document

This document tells about the test coverage and open issues of the Retail Store Stock Inventory Analytics project at the time of the release to UserAcceptance Testing (UAT).

8.2.2.Defect Analysis

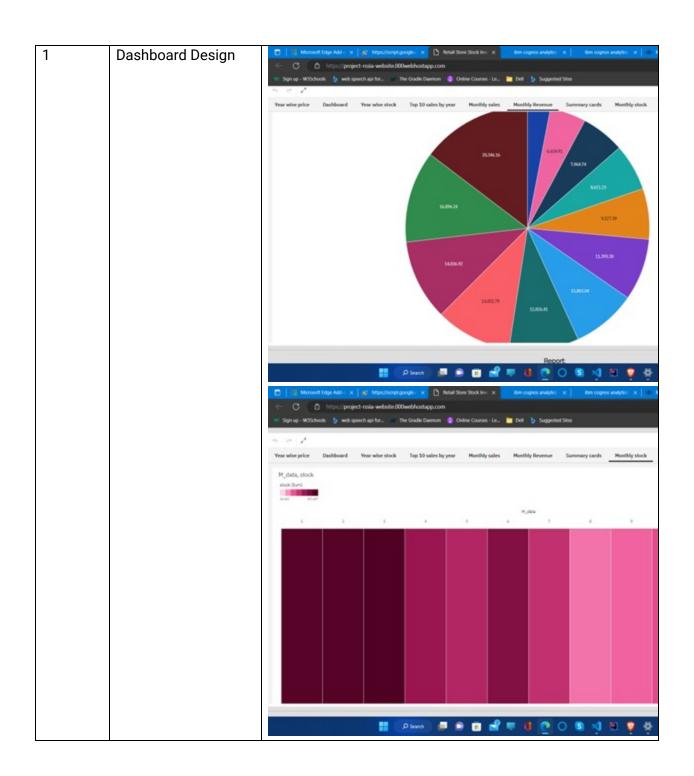
Some of the resolved or closed bugs at each severity level, and how they were resolved.

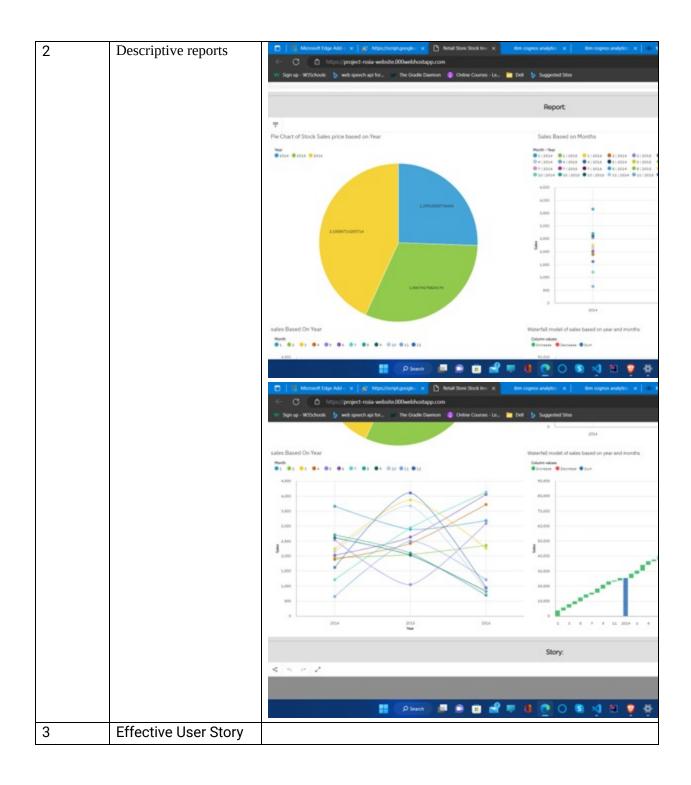
Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	2	0	0	0	2
External	3	0	0	0	3
Fixed	1	0	1	1	3
Duplicate	6	0	1	1	8
Skipped	0	1	0	0	1
Total	12	1	2	2	17

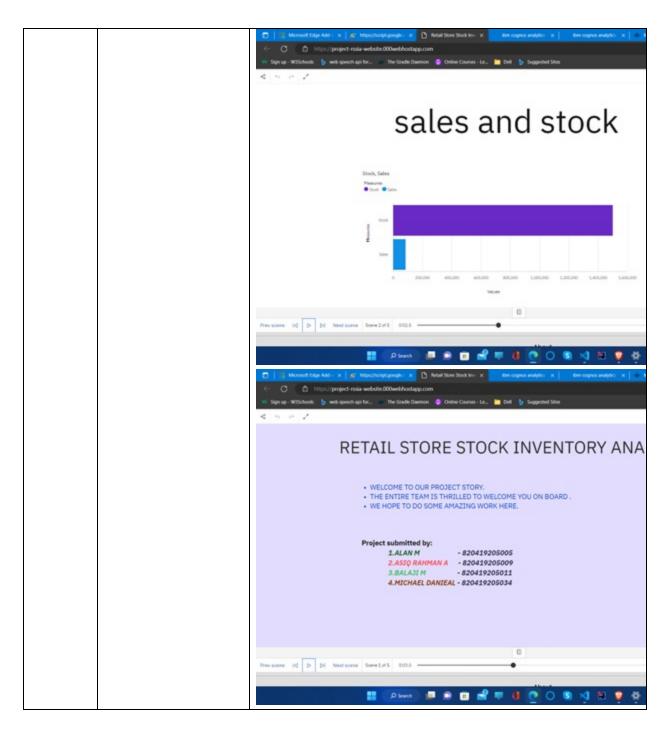
9.Result

9.1. Performance Metrics

S.No	Parameter	Screenshot







10. Advantages & Disadvantages

Advantages

Centralized record-keeping:

Centralized record-keeping

Entering item and customer information repeatedly while creating a sales order or invoice is always frustrating. Our Inventory captures all of the sale information at once, eliminating double data entry and enabling comprehensive reporting.

Sort and analyze with item groups Sort and analyze with item groups

Grouping items that share common attributes allows them to be analyzed and tracked efficiently. With item groups, you can combine items based on their characteristics and see each group's performance in just one click.

Track movement and expiration dates

Identifying every item or batch with a unique code while you are adding it allows you to trace its movement and expiration date at any time. When you're creating a sales order, invoice, or item adjustment, you can scan items with a barcode scanner to auto-fill their individual codes.

Fulfill orders without hassles

Systemize every operation in your order management cycle. Create package slips from your confirmed sales orders, integrate with more shipping carriers, and send real-time status notifications to customers after shipping each package.

Automatic tasks and alerts

Set your mundane tasks on autopilot with automation rules. Get automatically reorder point notifications and avoid out-of-stock situations, or send personalized order confirmation emails to your regular customers.

Reports for better analysis

After you streamline your inventory process, it's important to monitor its performance. Run detailed reports with just a click to see your bestselling items, most valuable customers, or packing efficiency, so you can make quick, informed decisions every time.

Disadvantages

- Error in data fed to the application could give false results and predictions.
- As the prediction is based on past data ,the data given must be accurate.
- Customer should also trust his/her own commonsense.
- The data fed to the application must be checked every time for errors this is difficult when the data is too large.

11.Conclusion

The website helps the retailer evaluate and predict the required stocks at a very early time. Using the site properly with commonsense can help the retailer reap abundant profits.

12. Future Scope

- Auto cleaning of erroneous data
- Notifications on important events.
- Suggestions on possible profits.
- Risk analysis for the retailer.
- [Auto generation of data for future use .

13.Appendix

Source Code

Index.html

```
<!DOCTYPE html>
<html>
  <head>
   k rel="stylesheet" href="background_styles.css">
   <link rel="stylesheet" href="styles.css">
   <script src="script.js" defer></script>
   <title>Retail Store Stock Inventory Analysis</title>
  </head>
  <body>
   <nav class="navbar">
    <div class="brand-title">Retail Store Stock Inventory Analysis</div>
    <a href="#" class="toggle-button">
     <span class="bar"></span>
     <span class="bar"></span>
     <span class="bar"></span>
              <span class="bar"></span>
    <div class="navbar-links">
     <l
      <a href="#dashboard">Dashboard</a>
      <a href="#report">Report</a>
      <a href="#story">Story</a>
                    <a href="#about">About</a>
     </div>
   </nav>
       <article>
                    <section id="dashboard">
                           <center><b><h3>Dashboard:</h3></b></center>
                           <iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.public_folder
```

s%2Ffinal%2FProject%2BDashboard_&closeWindowOnLastView=true&ui_appbar=fals e&ui_navbar=false&shareMode=embedded&action=view&mode=dashboard &subView=model000001848eb8836d_00000000" width="1500" height="550" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>

</section>

```
</article>
            <hr>
            <article>
                   <section id="report">
                         <center><b><h3>Report:</h3></b></center>
                         <iframe
src="https://us3.ca.analytics.ibm.com/bi/?pathRef=.my_folders%2FProject%2Breport&clos
eWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=embe
dded&action=run&format=HTML&prompt=false" width="1500" height="650"
frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
                   </section>
            </article>
            <hr>
            <article>
                   <section id="story">
                         <center><b><h3>Story:</h3></b></center>
                         <iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_folders%2FProj
ect%2Bstory&closeWindowOnLastView=true&ui_appbar=false&ui_navbar=false&
amp;shareMode=embedded&action=view&sceneId=model000001848a441856_00000
000&sceneTime=2500" width="1500" height="550" frameborder="0" gesture="media"
allow="encrypted-media" allowfullscreen=""></iframe>
                   </section>
            </article>
            <hr>
```

```
<article>
                 <section id="about">
                 <center><b><h3>About<h3></b></center>
                 <center>A simple and understandable representation of sales data that
helps the retailer
                 determine the right amount of stock to keep on-hand to fill demand while
avoiding spending too much on inventory storage.
                 </center>
                 <center>
                 Hope you Like our website<br>
                 Thank you for guiding us
                 </center>
                 <center>
                 <h3><b>Analysts:</b></h3>
                 </center>
                 <center>
                 Balaji M
                                  :820419205011
                 Asiq Rahman A :820419205009
                 Alan M
                                  :820419205005
                 Michael Danieal N :820419205034
                 </center>
                 </section>
           </article>
 </body>
</html>
style.css
* {
  box-sizing: border-box;
}
```

```
body {
  margin: 0;
  padding: 0;
}
.navbar {
  display: flex;
  position: relative;
  justify-content: space-between;
  align-items: center;
  background-color: #1E90FF;
  color: white;
}
.brand-title {
  font-size: 1.5rem;
  margin: .5rem;
}
.navbar-links {
  height: 100%;
}
.navbar-links ul {
  display: flex;
  margin: 0;
  padding: 0;
}
```

```
.navbar-links li {
  list-style: none;
}
.navbar-links li a {
  display: block;
  text-decoration: none;
  color: white;
  padding: 1rem;
}
.navbar-links li:hover {
  background-color: #555;
}
.toggle-button {
  position: absolute;
  top: .75rem;
  right: 1rem;
  display: none;
  flex-direction: column;
  justify-content: space-between;
  width: 30px;
  height: 21px;
}
.toggle-button .bar {
```

```
height: 3px;
  width: 100%;
  background-color: white;
  border-radius: 10px;
}
@media (max-width: 800px) {
  .navbar {
    flex-direction: column;
    align-items: flex-start;
  }
  .toggle-button {
    display: flex;
  }
  .navbar-links {
    display: none;
    width: 100%;
  }
  .navbar-links ul {
    width: 100%;
    flex-direction: column;
  }
  .navbar-links ul li {
    text-align: center;
```

```
}
  .navbar-links ul li a {
    padding: .5rem 1rem;
  }
  .navbar-links.active {
    display: flex;
  }
}
background.css
@import url('https://fonts.googleapis.com/css?family=Raleway');
* {
  font-family: Raleway;
}
html {
  background-color: #DFDFDF;
}
Script.js
const toggleButton = document.getElementsByClassName('toggle-button')[0]
const navbarLinks = document.getElementsByClassName('navbar-links')[0]
toggleButton.addEventListener('click', () => {
 navbarLinks.classList.toggle('active')
})
```

Github & Project Demo Link

Github Link

https://github.com/IBM-EPBL/IBM-Project-39388-1660410548

Project Demo Link

https://www.youtube.com/pfhekFtDVHQ

Project Story Link

https://www.youtube.com/kBfyK9SfRW4