

# **GLOBAL SALES DATA ANALYTICS**

# **PROJECT REPORT**

## NALAIYA THIRAN PROJECT

**SUBMITTED BY** 

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0F

**BACHELOR OF ENGINEERING** 

IN

**ELECTRONICS AND COMMUNICATION ENGINEERING** 

**FROM** 

**PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY** 

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# **PROJECT REPORT**

TEAM ID	PNT2022TMID05132
PROJECT NAME	GLOBAL SALES DATA ANALYTICS
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# 1. INTRODUCTION

# 1.1 Project Overview

Shopping online is currently the need of the hour. Because of this COVID, it's not easy to walk in a store randomly and buy anything you want. So, this project is done to try to understand a few things like, Customer Analysis and Product Analysis of this Global Super Store.

## 1.2 Purpose

By the end of this Project, you will:

- Know fundamental concepts and can work on IBM Cognos Analytics.
- Gain a broad understanding of plotting different visualizations to provide a suitable solution.
- Able to create meaningful Visualizations and Dashboard(s).

## 2. LITERATURE SURVEY

## 2.1 Existing problem

Shopping online is currently the need of the hour. Because of this COVID, it's not easy to walk in a store randomly and buy anything you want.

## 2.2 References

1.Data analysis and visualization of sales data - Mar-2016 Authors: Kiran Singh, Rakhi Wajgi Data is being generated very rapidly due to increase in information in everyday life. Huge amount of data get accumulated from various organizations that is difficult to analyse and exploit. Data created by an expanding number of sensors in the environment such as traffic cameras and satellites, internet activities on social networking sites, healthcare database, government database, sales data etc., are example of huge data. Processing, analysing and communicating this data are a challenge. Online shopping websites get flooded with voluminous amount of sales data every day. Analysing and visualizing this data for information retrieval is a difficult task. Therefore, a system is required which will effectively analyse and visualize data. This paper focuses on a system which will visualize sales data which will help users in applying intelligence in business, revenue generation, and decision making, managing business operation and tracking progress of tasks. 2. Walmart's Sales Data Analysis - A Big Data Analytics Perspective - Dec2017 Authors: Manpreet singh, Bhawick Ghutla, Reuben lilo Jnr, Aesaan F S Mohammed, Mahmaad A Rashid Information technology in this 21st century is reaching the skies with large-scale of data to be processed and studied to make sense of data where the traditional approach is no more effective. Now, retailers need a 360-degree view of their consumers, without which, they can miss competitive edge of the market. Retailers must create effective promotions and offers to meet its sales and marketing goals, otherwise they will forgo the major opportunities that the current market offers. Many times, it is hard for the retailers to comprehend the market condition since their retail stores are at various geographical locations. Big Data application enables these retail organizations to use prior year's data to better forecast and predict the coming year's sales. It also enables retailers with valuable and analytical insights, especially determining customers with desired products at desired time in a particular store at different geographical locations. In this

paper, we analysed the data sets of world's largest retailers, Walmart Store to determine the business drivers and predict which departments are affected by the different scenarios (such as temperature, fuel price and holidays) and their impact on sales at stores of different locations. We have made use of Scala and Python API of the Spark framework to gain new insights into the consumer behaviours and comprehend Walmart's marketing efforts and their data-driven strategies through visual representation of the analysed data.

3.Research on Refined Sales Management, Data Analysis and Forecasting under Big Data - Oct-2020 Author: Wenhui Shan This article analyses the key points of refined sales management under big data. The main points of sales management include how to establish a sales management organization, how to improve the sales management information system, how to improve the evaluation management system, and how to strengthen internal sales control. Combining the key points of data analysis under big data, the author studies the establishment of data warehouse, data cleaning and mining, the establishment of data prediction models, and the arrangement of model analysis results. The purpose of this article is to help people give full play to the advantages of big data technology applications and promote the healthy development of the enterprise economy.

4.Advanced data analysis and exploration of large marketing databases are the subjects of many research and application projects Authors: Setia & Jyoti, 2013 The knowledge acquired can be used automatically in the processes of communication with the client including operations undertaken in order to increase the chance of making a purchase, improve customer satisfaction, reduce the risk of a customer leaving, or optimise the margin on the product.

5.Application of advanced data analysis in marketing is considered in three main perspective Authors: Jannach, Zanker, Felfernig, & Friedrich, 2010 From the managerial perspective, we use it to build a decision support system that uses large, heterogeneous data and mechanisms generating recommendations related to the sales strategy and pro-motion of the products offered. From the customer's perspective, we prepare an advisory system facilitating selection of products in accordance with one's inter-ests, needs, and preferences. From an IT perspective, advanced data analysis is related to a computing platform containing a number of exploration models, integrated with transactional systems of the online and offline store and its envi-ronment. This platform must guarantee not only access to various information resources but also scalability of applications operating on a large number of information collections

2	Title	Author	Journal,Year	Proposed Method	Disadvantage
۷.	Big Data	Nikhil	18-07-	Big Data Storage	The information era
	Analytics:A	Madaan,	2020	andManagement.	we are currently
	Literature	Umang		Customer	living in, voluminous
	Review	Kumar,		Intelligence.Quality	sorts of high velocity
	Paper	Suman Kr		Management and	data.
		Jha.		Improvement.Risk	
				Management and	
				Fraud Detection	
	Big Data	Sarah Al-	2019	Supervised,	Thus usefully focus
	Analytics: A	Shiakhli		unsupervised,	on big data analytics
	Literature			semi-supervised,	challenges with
	Review			reinforcement	regard to security
	Perspective			learning.,	and privacy issues

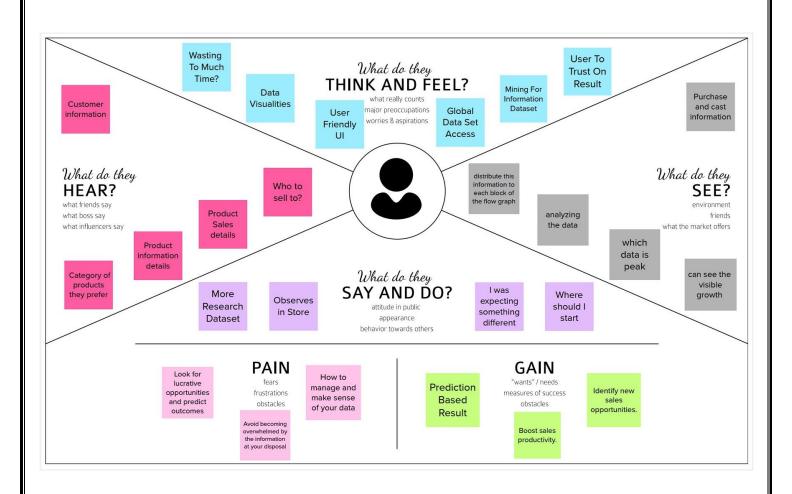
## 2.3Problem Statement Definition

The overall purchase power of the consumer and also sales capacity of company. Unavailability of products equally between the consumers. There is no proper distribution of products among the customer The customers are not getting the products they prefer. By hearing out to the consumers and collecting their user preference data. Data analytics and data visualization is used for this.

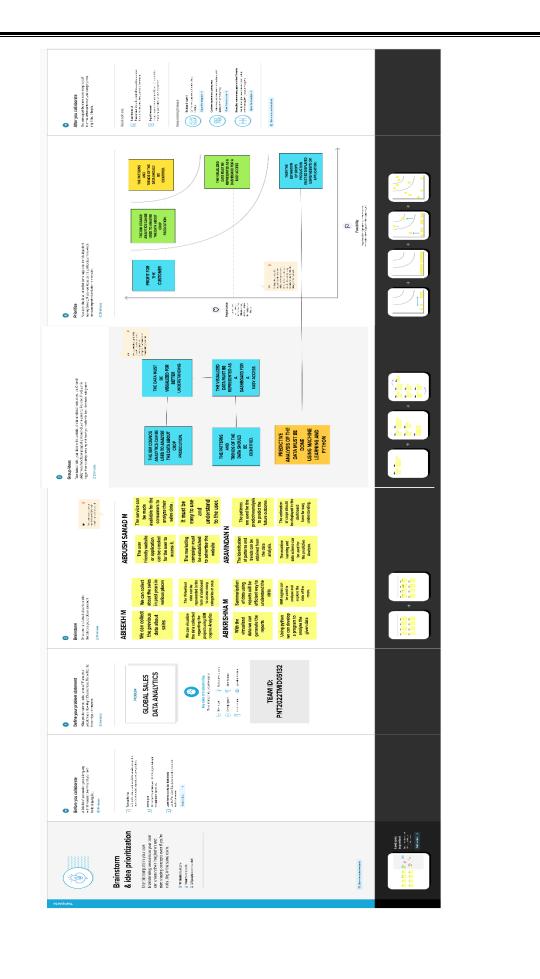
Who does the problem affect?	The overall purchase power of the consumer and also sales capacity of company.
what are the boundaries of the problem?	Unavailability of products equally between the consumers.
What is the issue?	There is no proper distribution of products among the customer The customers are not getting the products they prefer.
When does the problem occur?	If sufficient knowledge of purchase history this cause this issue.
Where does this problem occur?	It occurs to retailers who does not hear to consumers.
Why is it important that we address this problem?	So the purchasing power will increase and beneficiary for both retailers and consumers.
What solution to solve this issue?	By hearing out to the consumers and collecting their user preference data.
What methodology used to solve the issue?	Data analytics and data visualization is used for this.

# 3. IDEATION & PROPOSED SOLUTION

## 3.1 Empathy Map Canvas



3.2 Ideation & Brainstorming		
	10	



# 3.3 Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The user needs a way to track and maintain overall sales data so that he can make more profit. The user needs a strategy to market the products so that it reaches all people through media. The user finds the key performance indicators so that he can boost the annual sales and reduces customer churn.
2.	Idea / Solution description	A good sales dashboard is the solution. We can monitor the sales by its geographic location and track order purchases. We can monitor the monthly sales and stocks retained on each product. Create and approve sales orders, track order purchases, improve sales tracking and optimization of goods delivery.
3.	Novelty / Uniqueness	Provides Real-Time Data, Can Help the Team Set Goals, Gives a Clear Overview of Sales Activity, Allows for the Identification sales of growth opportunities and Identifies opportunities for improvement.
4.	Social Impact / Customer Satisfaction	Ensures sustainability in global market. Creates meaningful change in business approach. Trying to attract customers of all range.
5.	Business Model (Revenue Model)	A Sales dashboard enables direct insight into your revenue driving force, allowing yo u to plan, implement and improve with data-based decisions.
6.	Scalability of the Solution	The great thing about Sales Analytics is that it gives you answers, and you need to ask the right questions. With accurate insight into current customers, a higher retention rate, as well as increasing revenue, can be achieved. Having realtime insight into increasing and decreasing customers will allow your Sales Team to focus on the right clients at the right time and efforts are driven towards suitable clients. A Sales Dashboard helps you visualize your Sales data, which is helpful for efficient decision-making and analysis performance.

## 3.4 Problem Solution fit

#### CS 6. CUSTOMER CONSTRAINTS CC 1. CUSTOMER SEGMENT(S) 5. AVAILABLE SOLUTIONS AS Explore AS, differentiate 1) The competition perform analytics and display A Bussiness owner who would like to 1) No online payments available. Dashboard with autogenerated insights. understand more about his bussiness Buy directly from us. 2) Need to check input file structure before fit into 2) Out product provides facility to add manual performance in global scale. Insights to the analytics performed. Uploading. Define CS, J&P RC 2. JOBS-TO-BE-DONE / PROBLEMS 9. PROBLEM ROOT CAUSE 7. BEHAVIOUR 1) Collecting sales data and using office software to 1) Determine input file structure. 2) What analysis to perform to be useful? analyze it. 2) Un-intuitive way of analyzing data and lot of 2) Anna university. and how to perform them? 3) Bussiness model. manual labor. 4) Society CH TR SL 10. YOUR SOLUTION 8. CHANNELS of BEHAVIOUR Extract online & offline CH of BE Have you ever felt that you are unaware of how your bussiness is performing? Have you ever had a decision fatigue? Not knowing what to do next in order to progress? 1) Creating an Interactive Dashboard. Using third party services with automated insights 2) Responsive Design for every screen sizes. and subscription based services to analyze data. 3) Manual Insights for each interaction. progress? ur product can help you to find that spark take the next step. 4) One time payment. EM 4. EMOTIONS: BEFORE / AFTER Before: Anxiety, Decision fatigue, Lazyness. Using office software to analyze complex data in After : Clear mind, Peacefullness. un-intuitive way.

## 4. REQUIREMENT ANALYSIS

# 4.1 Functional requirement

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
FR-3	Collects Data	Providing CSV file Authentic Datasets
FR-4	Cleans the given Data	Prepares data for EDA purpose
FR-5	Visualisation of Data	Identifying trends in given data Accurate visualisation of provided numbers
FR-6	Create Dashboard	Analysation of the dataset's Key performance indicator
FR-7	Reporting	The reporting function helps users have complete control over their business. The real-time reporting collects current information and displays the data on an intuitive user interface.

# 4.2 Non-Functional requirements

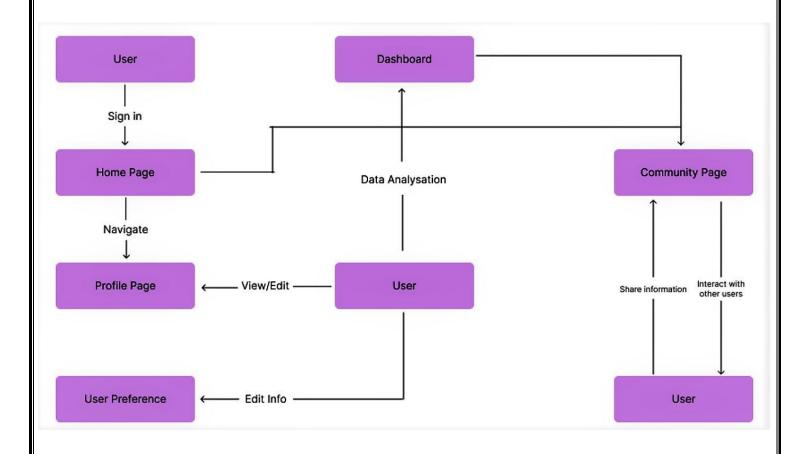
Following are the non-functional requirements of the proposed solution.

NFR	Non-Functional Requirement	Description
No.		
NFR-1	Usability	It should be easier to understand the insights for the customers.
NFR-2	Security	The data is protected from unauthorized access.
NFR-3	Reliability	App could be run offline while server maintenance takes place. Server traffic would not be an issue.
NFR-4	Performance	Requires minimum system requirements, hence could be accessible in many devices with faster loading time.
NFR-5	Availability	Server is online 24/7 hence users could use the app at any time. App will work offline as well/
NFR-6	Scalability	Dashboards/Templates are very much Scalable, the user can modify the metrics whenever they want.

# 5. PROJECT DESIGN

# **5.1 Data Flow Diagrams**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



# 5.2 Solution and technical architecture. **Prepare Dataset** Handling missing value Input data Preprocessing Data set Splitting the dataset Drop unwanted Data modules to columns connect data Looking for trends Data exploration and strategies Data visualization Comparison Dashboard creation Interactive multipage dashboard 17

# 5.3 User Stories

Customer (Web user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and	I can access my account / dashboard	High	Sprint-1
		USN-2	confirming my password.  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
	Login	USN-3	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard	USN-4	As a user, I can enter data to conduct to conduct business analysis to make business decisions		High	Sprint-1
Customer Care Executive			As a Customer Care Executive, I can answer users' queries		High	Sprint-1
Administrator			As admin, can make changes to the interface according to the needs		High	Sprint-1

# 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 entering my email, password, and confirming my password.	2	High	Abikrishna M, Abishek M
Sprint-2	Dashboard	USN-2	As a user, I can enter my sales information to clean it up and get it ready for analysis, and I can also locate my information to perform a business analysis.	3	High	Aravindan N, Abdush Samad M
Sprint-3	Customer Care	USN-3	As a user, I can enter my sales information to clean it up and get it ready for analysis, and I can also locate my information to perform a business analysis.	2	Low	Aravindan N, Abikrishna M, Abdush Samad M
Sprint-4	Administrator	USN-4	As an admin, I can modify the user interface to meet the needs of the users.	3	High	Aravindan N, Abdush Samad M, Abikrishna M, Abishek M

# 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	7	6	24 Oct 2022	14 Oct 2022	7	29 Oct 2022
Sprint-2	5	6	31 Oct 2022	15 Nov 2022	5	05 Nov 2022
Sprint-3	3	6	07 Nov 2022	18 Nov 2022	3	12 Nov 2022
Sprint-4	5	6	4 Nov 2022	19 Nov 2022	5	19 Nov 2022

## **Velocity:**

The average velocity (AV) per iteration unit (story points per day):

Sprint1: AV=Sprint duration/velocity= 7/6=1.17

Sprint 2: AV=Sprint duration/velocity = 5/6 = 0.84

Sprint3: AV=Sprint duration/velocity= 3/6=0.5

Sprint4: AV=Sprint duration/velocity= 5/6=0.84

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

## 7.1 Feature

We have used many visualizations type like

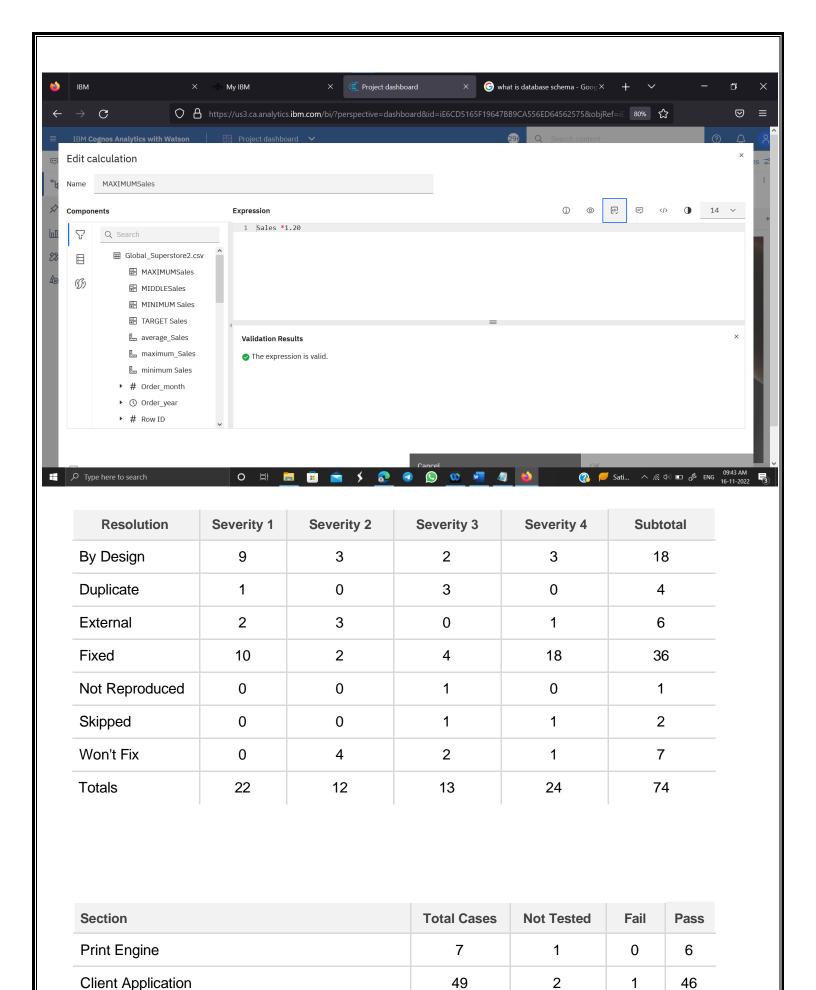
- > For comparison:
  - o Bar
  - o Bullet
  - o Line and column
  - Radar
  - Word cloud
- > Parts to whole:
  - Pie chart
  - o Tree map
- > Trend:
- o Box plot
- o Line
- Line and column
- > Relationships
- Scatter
- > Tables and summary
  - Crosstab
  - $\circ \ \ Summary$
- > Geospatial
- o Legacy map
- о Мар

# 7.2 Database Schema (if Applicable)

Build the following visualizations

- 1. Global Stuperstore\_Data Upload.
- 2. Global Superstore\_DataPrep.
- 3. Date Calculations and Navigation path.
- 4. Segment wise Sales, Profit and Qty.
- 5. Use Pie to showcase Sales by Order Priority and Sales by Market.
- 6. Use a TreeMap to present Sales by Sub-Category
- 7. Using a Bar chart present Sales by Region by the Sales Order.
- 8. Present Regional Sales using Map Country points -- Showcase Top 10 countries.
- 9. Present Sales (Bar), Profit (line) by Sub-Category using Line and Column Chart.
- 10. Sales vs Profit Scatter Plot with Sub-Category points and Region in Colour.
- 11. Sales and Profit Forecast by Month Country as Region and Region as Filter.
- 12. Sales vs Profit forecast by Month by Order Priority.
- 13. Show the Min, Max, and Avg Sales by Sub-Category using the Box plot.
- 14. By setting a 10% extra Target for Sales Present Segment-wise Sales use Bullet Chart.
  - 15. Present Sales using Hierarchy Bubbles by Market / Region.
  - 16. Using a Legacy Map Present Sales vs Profit by Country / Region.
  - 17. Showcase Quantity Sold by Radar Chart across various Regions.
  - 18. Present Monthly Sales by Sub-Category using Waterfall chart.
  - 19. Present Sales Vs Profit of Countries by Word Cloud.
  - 20. Sales dashboard with Summary Cards.

O TECTING	
8. <u>TESTING</u>	
9.1 Test Cases	
8.1 Test Cases	
	23
ii	— <del>-</del>



Security	2	0	0	2
Outsource Shipping	2	0	0	2
Exception Reporting	7	0	0	7
Final Report Output	6	0	0	6
Version Control	2	0	0	2

Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result
Verify user is able to log into application with Valid credentials	Nil	1.Enter URL(https://shopenzer.com/) and click go 2.Click on My Account dropdown button 3.Enter Valid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: chalam@gmail.com password: Testing123	User should navigate to user account homepage
Verify user is able to log into application with InValid credentials	Nil	1.Enter URL(https://shopenzer.com/) and click go 2.Click on My Account dropdown button 3.Enter InValid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	password: Testing123	Application should show 'Incorrect email or password ' validation message.
Verify user is able to log into		1.Enter URL(https://shopenzer.com/) and click go 2.Click on My Account dropdown button		Application should show 'Incorrect email or password ' validation message.

# 9. <u>RESULTS</u>

# 9.1 Performance Metrics

This dashboard is created to understand a few things like, Customer Analysis and Product Analysis of the Global Super Store. This can be achieved by hearing out to the consumers and collecting their user preference data So that purchasing power will increase and beneficiary for both retailers and consumers.

## 10. ADVANTAGES & DISADVANTAGES

## **ADVANTAGES:**

- > purchasing power will increase and beneficiary for both retailers and consumers.
- > IBM Cognos analytics helps in building the dashboard and creating the exploration.

## **DISADVANTAGES:**

> A little bit confusing to choose the type of exploration.

# 11. CONCLUSION

Creating this dashboard will help understand customers will So that purchasing power will increase and will be beneficiary for both retailers and consumers.

# 12. FUTURE SCOPE

- > This dashboard is a responsive dashboard, so as we update the csv file uploaded in the IBM Cognos dashboard updates automatically so that this dashboard can be utilized in future also.
  - > This dashboard is also having forecast exploration which enables to predict future sales.

# 13. APPENDIX

#### **SOURCE CODE:**

## **\*** LOGIN:

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<title> Login Page </title>
<style>
Body {
font-family: Calibri, Helvetica, sans-serif;
background-color:white;
background-image:
                         url('https://2h2fxj2oochv47z6ig3v0sve-wpengine.netdna-ssl.com/wp-
content/uploads/2021/07/man-in-a-suit-standing-behind-a-hologram-of-data-analytics-
1030x579.jpg');"
}
button {
   background-color:#c3e3dc;
   width: 100%;
   color: purple;
   padding: 15px;
   margin: 10px 0px;
   border: none:
   cursor: pointer;
form {
   border: 3px solid #f156189;
input[type=text], input[type=password] {
   width: 100%;
   margin: 8px 0;
   padding: 12px 20px;
```

```
display: inline-block;
   border: 2px white;
   box-sizing: border-box;
 }
button:hover {
   opacity: 0.7;
 }
.cancelbtn {
   width: auto:
   padding: 10px 18px;
   margin: 10px 5px;
 }
.container {
   padding: 25px;
       background-color:pink; -->
<!--
 }
</style>
</head>
<body>
  <center> <h1>Login Form </h1> </center>
  <form>
   <div class="container">
     <label>Username : </label>
     <input type="text" placeholder="Enter Username" name="username" required>
     <label>Password: </label>
     <input type="password" placeholder="Enter Password" name="password" required>
     <button type="submit">Login</button>
     <input type="checkbox" checked="checked"> Remember me
     <button type="button" class="cancelbtn"> Cancel</button>
     <a href="#"> Forgot password? </a>
   </div>
 </form>
</body>
</html>
```

## **❖ ABOUT:**

```
<!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">
                                                                                rel="stylesheet"
 link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
 <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>
 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
 <script
src="https://cdn.isdelivr.net/npm/bootstrap@4.6.1/dist/is/bootstrap.bundle.min.is"></script>
 <title>About</title>
 <style>
 *{
  margin:0px;
  box-sizing: border-box;
 body{
  font-family: Arial, Helvetica, sans-serif;
  margin: 0;
  background: #8e9eab; /* fallback for old browsers */
  background: -webkit-linear-gradient(to right, #eef2f3, #8e9eab); /* Chrome 10-25, Safari 5.1-
6 */
  background: linear-gradient(to right, #eef2f3, #8e9eab); /* W3C, IE 10+/ Edge, Firefox 16+,
Chrome 26+, Opera 12+, Safari 7+ */
 }
 #about{
  margin-top: 50px;
 }
 h1{
  font-size: 60px;
 }
 Ъ{
  font-size: 20px;
 #cards{
  padding: 30px
 .column{
  padding: 30px;
 .card{
  border: none;
  box-shadow: rgba(0, 0, 0, 0.24) 0px 3px 8px;
 button{
  margin-left: 100px;
  margin-top: 50px;
  #home-btn{
  margin-top: 50px;
  margin-left: 100px;
```

```
padding:10px 30px;
  font-size: 30px:
 }
</style>
</head>
<body>
<a href="index.html" class="btn btn-dark stretched-link" id="home-btn">Home</a>
<div class="container-fluid" id="about">
 <h1>ABOUT US </h1>
 Who are we and what we do.
 Resize the browser window to see that this page is responsive by the way.
</div>
<h2 style="text-align:center">Our Team</h2>
<div class="container-fluid" id="cards">
<div class="row">
 <div class="column">
  <div class="card" style="width:400px;">
   <img class="card-img-top" src="{{url for('static', filename='avatar2.jpg')}}" alt="Card image"</pre>
style="width:100%"/>
   <div class="card-body">
    <h4 class="card-title">ABISEKH.M</h4>
    <h5 class="title">Team Leader</h5><br>
    ECE Engineer<br>Assigns tasks to members and manages the
server.<br><br>
    abisekh4.com@psnacet.edu.in<br>
    <a href="#" class="btn btn-primary stretched-link">See Profile</a>
   </div>
  </div>
 </div>
 <div class="column">
  <div class="card" style="width:400px">
   <imq class="card-imq-top" src="{{url for('static', filename='avatar2.jpg')}}" alt="Card image"</pre>
style="width:100%"/>
   <div class="card-body">
    <h4 class="card-title">ABDUSH SAMAD.M</h4>
    <h5 class="title">Team Member 1</h5><br>
    ECE Engineer<br>Does data visulaizations.<br><br>
    abdushsamad3112@psnacet.edu.in<br>
    <a href="#" class="btn btn-primary stretched-link">See Profile</a>
   </div>
  </div>
 </div>
 <div class="column">
  <div class="card" style="width:400px">
```

```
<img class="card-img-top" src="{{url_for('static', filename='avatar2.jpg')}}" alt="Card image"</pre>
style="width:100%">
   <div class="card-body">
    <h4 class="card-title">ABIKRISHNA.M</h4>
    <h5 class="title">Team Member 2</h5><br>
    ECE Engineer.<br>Does back end tasks.<br><br>
    musicpro.2002a@psnacet.edu.in<br>
    <a href="#" class="btn btn-primary stretched-link">See Profile</a>
   </div>
  </div>
 </div>
<div class="column">
 <div class="card" style="width:400px">
  <img class="card-img-top" src="{{url_for('static', filename='avatar2.jpg')}}" alt="Card image"</pre>
style="width:100%">
  <div class="card-body">
   <h4 class="card-title">ARAVINDAN.N</h4>
   <h5 class="title">Team Member 3</h5><br>
   ECE Engineer.<br>>Manages storage and data.<br>
   aravind.nattudurai@psnacet.edu.in<br>
   <a href="#" class="btn btn-primary stretched-link">See Profile</a>
  </div>
 </div>
</div>
</div>
</body>
</html>
```

## **❖** REGISTER:

<!DOCTYPE html>

<html>

```
<head>
 <title></title>
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 rel="stylesheet"
                                           href="https://cdnjs.cloudflare.com/ajax/libs/font-
 k
awesome/4.7.0/css/font-awesome.min.css">
 <!-- ¡Query library -->
 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
 <!-- Latest compiled JavaScript -->
 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
 <script src="https://www.google.com/recaptcha/api.js" async defer></script>
 <style type="text/css">
   bodv{
     margin: 10px 10px 10px 100px;
     background-color: aliceblue;
   }
   .error {
     color: red;
   .fm1 {
     text-align: center;
   }
   .lb1 {
     text-align: center;
     padding: 25px;
   }
   .lb2 {
     margin-left: 20px;
   }
   .lb3 {
     margin-right: 35px;
   .container {
     display: block;
   .k{
     border-radius: 15px;
 </style>
</head>
<body>
```

```
<?php
include 'header.php';
 <div class="heading fix">
   <label class="lb1">REGISTRATION</label>
 </div>
 <div class="outerbox">
   <div class="fixedbox">
     <span class="content">
       <h4>Hello, Friend!</h4>
       Enter your personal details and start journey with us
     </span>
   </div>
   <div class="scrollbox">
     <div class="registerdonor">
       <form action="process.php" method="POST" id="myform">
        <div class="login">
          <h3>Login Details</h3>
          <label class="lb1" class="username">User Name:-</label>
               <input type="text" name="user name" required pattern="^[A-Za-z0-9. %+-</pre>
@]{5,10}$"
                 title="Enter a username between 5 to 10 letter" autocomplete="off">
              <label class="lb1">Full Name:-</label>
               <input type="text" name="user_full_name" required pattern="[A-z]+$"
                 title="Use only character & whitespace" autocomplete="off">
              <label class="lb1">Email Id:-</label>
               <input type="email" name="user_email" required</pre>
                 pattern="[A-Za-z0-9. %+-]+@[A-z0-9.-]+\.[a-z]{2,}$"
                 title="Email id is not Valid" autocomplete="off">
              <label class="lb1">Password:-</label>
               <input type="password" name="password" required
                 pattern="(?=.\d)(?=.[a-z])(?=.*[A-Z]).{6,}"
                 title="Must contain at least one number and one uppercase and lowercase
letter, and at least 6 or more characters"
```

```
id="password" autocomplete="off">
            <label>Confirm Password:-</label>
              <input type="text" name="confirm_password" required</pre>
               pattern="(?=.\d)(?=.[a-z])(?=.*[A-Z]).{6,}"
               title="Must contain at least one number and one uppercase and lowercase
letter, and at least 6 or more characters"
               id="confirm_password" autocomplete="off">
            </div>
        <div class="container">
         <h3>Contact Details</h3>
         <label>Mobile Number:-</label>
              <input type="text" name="user_number" required pattern="^[1-9]{1}[0-9]{9}$"
               title="Number is not valid" autocomplete="off">
            <label class="lb1">Pincode</label>
              <input type="text" name="pincode" required pattern="^[0-9]{6}$"
               title="Pincode is not valid" autocomplete="off">
            <label class="lb1">Address:-</label>
                                            placeholder="follow
                          name="Address"
                                                                  with
                                                                          pincode"
              <textarea
required></textarea>
            <!-- <tr>
            <label class="lb1">City:-</label >
              <input type="text" name="city">
             -->
           <label class="lb1">State:-</label>
              <input type="text" name="state">
            34
```

```
</div>
        <div class="personal">
          <h3>Personal Details</h3>
          <label>Date Of Birth:-</label>
               <input type="date" name="date_of_birth" required autocomplete="off">
            <div class="radio">
                 <label class="lb3">Gender:-</label>
                 <input type="radio" name="gender" class="radio1" value="Male"><span</pre>
                   class="radioname" required autocomplete="off">Male</span>
                 <input type="radio" class="radio2" name="gender" value="Female"><span
                   class="radioname" required autocomplete="off">Female</span>
               </div>
             <label class="lb1">Blood Group</label>
               <input type="text" list="bloodgroup" name="blood_group" placeholder="----
Select----"
                 required autocomplete="off">
               <datalist id="bloodgroup">
                 <option value="A+"></option>
                 <option value="A-"></option>
                 <option value="AB+"></option>
                 <option value="B+"></option>
                 <option value="B-"></option>
                 <option value="0+"></option>
                 <option value="0-"></option>
               </datalist>
             <!-- <tr>
             <label class="lb1">Plasma Type</label >
               <input type="text" list="plasmatype" name="plasma_type" placeholder="----
Select----"
                 required autocomplete="off">
               <datalist id="plasmatype">
                 <option value="Hot"></option>
                 <option value="Warm"></option>
                 <option value="Cold"></option>
                 <option value="Ultra Cold"></option>
               </datalist>
```

```
 -->
            <label class="lb1">Weight In Kg:-</label>
               <input type="number" name="weight" required autocomplete="off">
             </div>
        <input type="checkbox" name="terms" id="checkbox"</pre>
                                                                              required
autocomplete="off">
          <!-- I agree to have my contact details broadcasted to the registered donors of
PGHS.net -->
          I agree that the above details are true 
        <input type="reset" class="lb2 k" name="submit" value="Reset">
        <a href="login.html">
          <input type="button" class="lb2 k" onclick="href='login.html';" value="Submit"></a>
     </div>
     </form>
   </div>
 </div>
 </div>
 <!-- Responsive table -->
 <div class="rregisterdonor">
   <form action="process.php" method="POST" id="myform">
</html>
```

#### 14.GitHub:

IBM-Project-8103-1658909554

#### **DEMO-VIDEO-LINK:**

https://drive.google.com/file/d/1Q11t0MP7sUos8AH0FN5pGfUZApy20Dkl/view?usp=share\_link