PROJECT REPORT

GLOBAL SALES DATA ANALYTICS

Team ID:	PNT2022TMID53156	Project ID:	12502-1659452330
Team Members:	Aman Jain Vaishnavi Chellappa Mathanggi Ashwini Sridar Athreya	Roll Numbers:	SSNCE195001551 SSNCE195001120 SSNCE195001061 SSNCE195001024
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1. INTRODUCTION

1.1. Project Overview

Shopping online is currently the need of the hour. Due to the COVID-19 pandemic, it's not easy to walk in a store randomly and buy anything you want. Hence, an informative display of visualizations in an interactive dashboard would be of great use to the users interested in global sales as it would provide insightful information regarding the current trends.

1.2. Purpose

The user-friendly interactive dashboard aims to provide effective business strategies that are not only functional and constructive but also realistic. It will be a one stop solution encompassing all the global sales data for anyone who wishes to analyze their organization's position in the market and make informed business decisions in accordance with the same.

2. LITERATURE SURVEY

2.1. Existing problem

We noticed that as the volume, variety, and velocity of data increases, confidence in the analytics process drops, and it becomes harder to separate valuable information from irrelevant, inaccurate, or incomplete data. Analyzing massive datasets requires advanced analytic tools that can apply AI techniques to weed out the noise and ensure fast, accurate results that support informed decision-making. The problem is, dealing with data at high volumes and high speeds which result in collecting a lot of great information including a

lot of noise that can obscure the insights that add the most value to your organization. This makes it difficult to develop a systematic process for finding, integrating, and interpreting insights. We noticed that our dataset presents an opportunity to collect rich insights that can create a complete picture of your customers and provide context for why sales are down or costs are going up.

2.2. References

- 1. https://www.zendesk.com/in/blog/guide-sales-analytics/
- 2. https://www.klipfolio.com/blog/sales-analytics-12-metrics
- 3. https://blog.close.com/sales-analysis/
- 4. https://www.salesken.ai/blog/sales-data-analysis
- 5. https://amplitude.com/blog/analytics-dashboard
- 6. https://www.tableau.com/learn/articles/sales-dashboards-examples-and-templates
- 7. https://www.glew.io/features/ecommerce-dashboard
- 8. https://www.glik.com/us/dashboard-examples/sales-dashboards

2.3. Problem Statement Definition

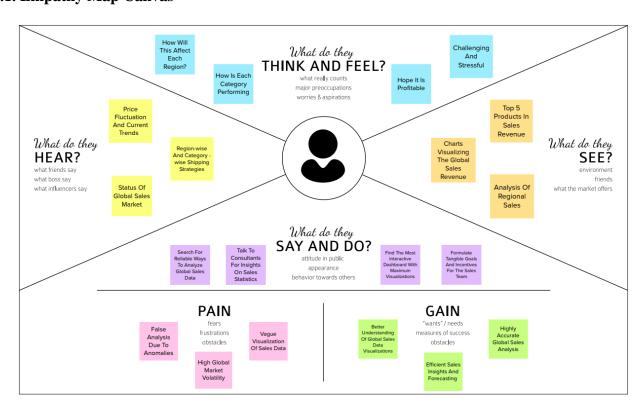
Every company that sells a product/service needs to reach a particular goal in order to make their company profitable. As businesses become larger and there is considerable growth and evolution in the product sales, it becomes more and more important to make use of any data that we may lay our hands on, to optimise the sales. This may also help in tapping possible customer bases, analysing the performance of each product and to help set achievable, efficiency driven goals.

Doing this manually may require a lot of time and labour. It may also compromise on accuracy of possible predictions. In order to make the most use of any available data and gain insights, we can make use of data analytics. This can help us mitigate potential risks and losses, optimise customer retention, gauge future trends using a unified analytics platform.

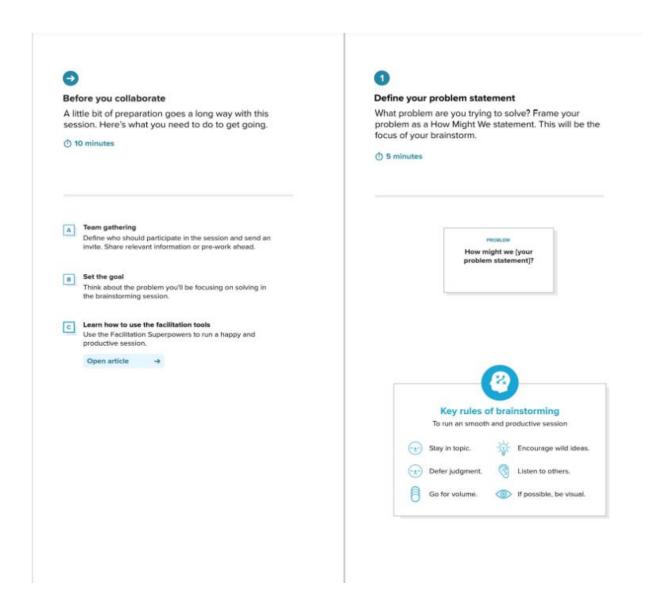
Who does the problem affect?	Every business that has a sales process involved in any way (both product and services)
What is the problem?	Lack of optimisation of solutions despite pre-existing data.
When does the problem occur?	It is a recurrent issue after concerning every sale.
Where is the problem relevant?	Globally relevant.
Why is it important that we address this problem?	In order to make the most optimal growth trajectory for every company's sales sector.

3. IDEATION & PROPOSED SOLUTION

3.1. Empathy Map Canvas



3.2. Ideation & Brainstorming





Brainstorm

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

10 minutes

Ashwini Athreya	Vaishnavi Chellappa	Mathanggi	Aman Jain
Make a interactive user friendly dashboard	Top competitors and how they compare	Revenue based on a geographical region	Sales year over year growth
Insights about market scope	Average order size	Alds company decisions	Pricing to maximize customer base
Key factors that affect profit and growth	Analyze consumer sentiment	Incentives for consumer loyalty	Marketing techniques used for better reach
Help formulate tangible goals	Real time streaming and updates	Get actionable reports periodically	Strategic pricing based on supply and demand
Lower customer acquisition cost	Performance review process	Customer segmentation based on preferences	Revenue goals per area



Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

1 20 minutes



DEMAND AND SUPPLY

Pricing to maximize customer base Pricing products based on the demand and supply gap DECISION MAKING

Predict customers by using prior data as a precedent

Incentives that have been successful in the past to improve loyalty Marketing techniques that work best for a region based on past data

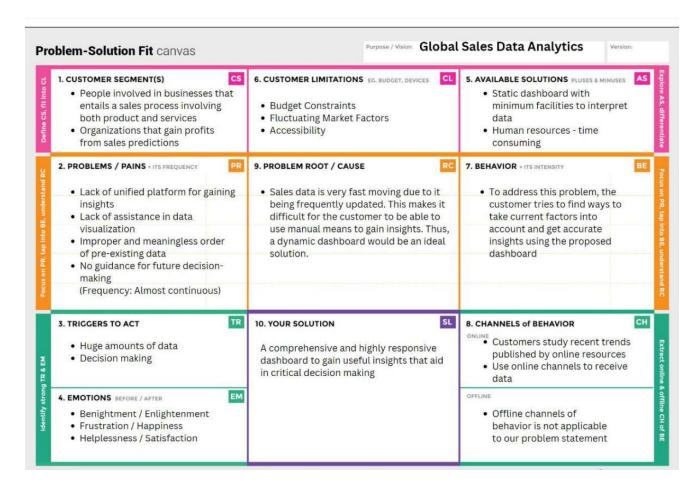
Formulation of tangible goals

3.3. Proposed Solution

S. No.	Heading	Details
1.	Problem Statement	Any company's end goal is to maximize finances acquired by selling their product or service. If this is done in an arbitrary, haphazard manner, it is very difficult to reach the maximum possible revenue and profit. Thus, it is important to make use of the data available from past sales to make inferences and come up with the best possible sales strategies. Doing this manually may be tedious, time consuming and inefficient. Making use of available technologies to visualize, analyze and observe underlying trends could be greatly helpful for the same.
2.	Proposed Solution/Idea	We aim to create an interactive dashboard using IBM Cognos Analytics. This will have the following features: 1. Users will be able to create multiple visualizations (graphs and charts). 2. Users will be able to view possible solutions and ideas. 3. Users will be able to make informed, strategic decisions based on past data.

3.	Novelty/Uniqueness	We aim to provide effective business strategies that are not only functional and constructive business realistic. It will be a one stop solution encompassing all the global sales data for anyone who wishes to analyze their own as well as their competitor's positions in the market and make informed business decisions in accordance with the same
4.	Social Impact	Using this system would make analysis of data patterns and trends very simple for sales teams It builds a unified platform for all the common data analytics processes. It can help visualize the relationships between various factors and gauge their impact on the profit of a company. It can also be extrapolated to check the performance of one company's sales as compared to their competitors in the market.
5.	Business Model	Product: Unified Data Analytics Platform using IBM Cognos. Target Market: Our target market would be the sales team of different companies. Anticipated Expenses: Software updation, debugging of problems, maintenance of software, frequent updation of the dataset, cloud storage due to data streaming, manual correction of data.
6.	Scalability	Since our dashboard will be developed modularly and will be suited for dynamically updated datasets, it is a scalable one. IBM Cognos being a widely used software will ensure that this dashboard can be extensively deployable.

3.4. Problem Solution fit



4. REQUIREMENT ANALYSIS

4.1. Functional requirement

S. No.	Functional Requirement	Sub-Requirement / Sub-task	
1.	Viewing Dashboard	The user should be able to view the dashboard embedded in the website.	
2.	Viewing Report	The user should be able to view the report embedded in the website.	
3.	Viewing Story	The user should be able to view the story embedded in the website	

4.	Interactive components	The components of the website namely dashboard, report and story should be interactive. This means that different filters can be applied by the user to filter out the visualizations based on preference.
5.	Subscription to newsletter / interaction with Data Analytics team.	The clients need to be able to contact the team that created the visualizations in the case of any preferred customizations. They may subscribe to a newsletter that we may put out.

4.2. Non-Functional requirements

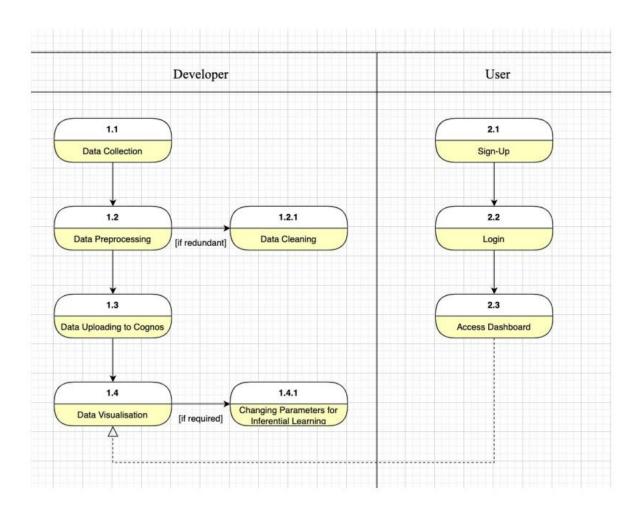
Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The dashboard is customer friendly and easy-to-navigate
NFR-2	Security	Since the dashboard is made using Cognos and because there is user authentication
NFR-3	Reliability	The data dashboard is made using careful analysis of data
NFR-4	Performance	Data integrity is maintained and rarely throws error
NFR-5	Availability	This system is accessible to the user at any given point in time
NFR-6	Scalability	Since the dashboard is made using IBM Cognos, a widely used platform, it is highly scalable

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.

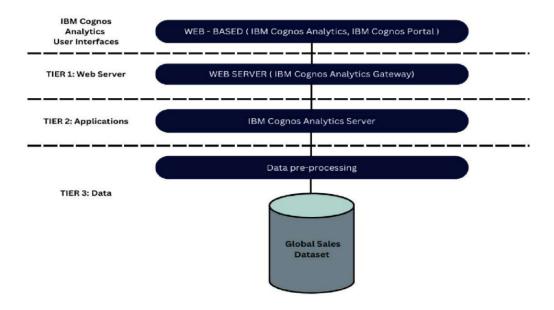


5.2. Solution & Technical Architecture

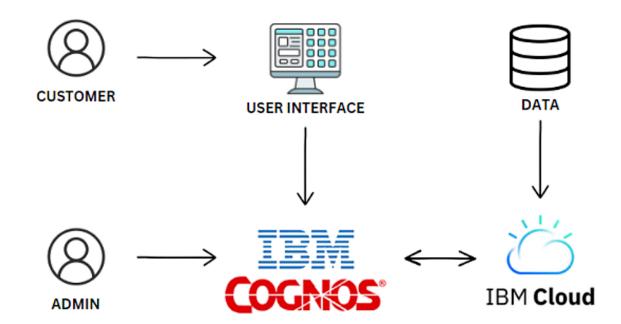
Solution Architecture:

SOLUTION ARCHITECTURE

GLOBAL SALES DATA ANALYTICS



Technical Architecture:



Components & Technologies:

Components	Œ	Technologic

S. No.	Component	Description	Technology
1.	User Interface	The customer can view the services provided by us and details regarding the project.	HTML
2.	Data Collection	User gives the dataset on which the visualizations have to be performed.	Python
3.	Dashboard	Performs visualizations on the given dataset and perform filters to take insights from the dashboard.	IBM Cognos
4.	Report	The customer can view insights from the report and make decisions based on these.	IBM Cognos
5.	Story	This is to show the customers what we do and the services we provide them.	IBM Cognos
6.	Cloud database	Database services on cloud	IBM DB2
7.	External API-1	The dataset is extracted using the dataset's API Token.	Global Sales API
8.	Infrastructure (Server/Cloud)	Default	Local

Application Characteristics:

S. No.	Component	Description	Technology
1.	Visualizations	Visualizations are performed on the Global Sales Data to give insights to the customers on how to maximize profit.	IBM Cognos Analytics
2.	Availability	Decentralized storage and distribution along-with web application approach make the service highly available.	IBM Cloud
3.	Data	The Dataset contains all the features regarding the Global Sales and needs to be processed to get a proper understanding of the dataset.	Dataset
4.	Scalable Architecture	Since the application servers can be deployed on many machines. Also, the database does not make longer connections with every client — it only requires connections from a smaller number of application servers. It improves data integrity.	3-tier architecture

5.3. User Stories

User Type	Functional Requirement	User Story Number	User Story/Task	Acceptance Criteria	Priority	Release
Admin	Upload dataset	USN-1	The admin has to upload the dataset on to cloud	Dataset will be uploaded onto the cloud.	High	Sprint- 1
	Create visualizations for dashboard	USN-2	The admin has to create appropriate visualizations for the dashboard based on the dataset.	The dashboard is created.	High	Sprint-
	Create visualizations for report	USN-3	The admin has to create appropriate visualizations for the report so that the customers can get insights from it.	The report is created.	High	Sprint- 1
	Create visualizations for story	USN-4	The admin has to create appropriate visualizations for the story to show the customers what we do.	The story is created.	High	Sprint-
Customer	View Dashboard	USN-5	The customer can view the dashboard and filter based on their requirements.	The customer can access the dashboard and apply filters.	Low	Sprint-
	View Report	USN-6	The customer can view the report and gain	The customer can access the report.	Medium	Sprint-

		insights from them regarding their sales.			
View story	USN-7	The customer can view the stories.	The customer is able to view the story.	High	Sprint-
Subscribe to our newsletter	USN-8	The customer can subscribe to our newsletter.	The customer has subscribed successfully.	High	Sprint-

6. PROJECT PLANNING & SCHEDULING

6.1. Sprint Planning & Estimation

Product Backlog, Sprint Schedule and Estimation:

Sprint	Functional Requirement	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint-1	Upload dataset	USN-1	The admin has to upload the dataset on to cloud	3	High	Aman Jain, Mathanggi
Sprint-1	Create visualizations for dashboard	USN-2	The admin has to create appropriate visualizations for the dashboard based on the dataset.	3	High	Ashwini Athreya, Vaishnavi Chellappa
Sprint-1	Create visualizations for report	USN-3	The admin has to create appropriate visualizations for the report so that the customers can get insights from it.	3	High	Ashwini Athreya, Vaishnavi Chellappa
Sprint-2	Create visualizations for story	USN-4	The admin has to create appropriate visualizations for the story to convey a	3	High	Aman Jain, Ashwini Athreya

			conclusion or recommendation.			
Sprint-3	View Dashboards	USN-5	The customer can view the dashboard and filter based on their requirements.	2	Medium	Ashwini Athreya, Mathanggi
Sprint-2	View Report	USN-6	The customer can view the report and get insights from them regarding their sales.	2	Medium	Aman Jain, Mathanggi
Sprint-4	View story	USN-7	The customer can view the stories	2	Medium	Vaishnavi Chellappa
Sprint-4	Subscribe to our newsletter	USN-8	The customer can subscribe to our newsletter.	1	Low	Mathanggi

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	Sprint Release Date (Actual)
Sprint-1	6	6 Days	24th Oct 2022	29th Oct 2022	1	29th Oct 2022
Sprint-2	6	6 Days	31st Oct 2022	5th Nov 2022	-	5th Nov 2022
Sprint-3	4	6 Days	7th Nov 2022	12th Nov 2022	-	12th Nov 2022
Sprint-4	3	6 Days	14th Nov 2022	19th Nov 2022	-	19th Nov 2022

Velocity:

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

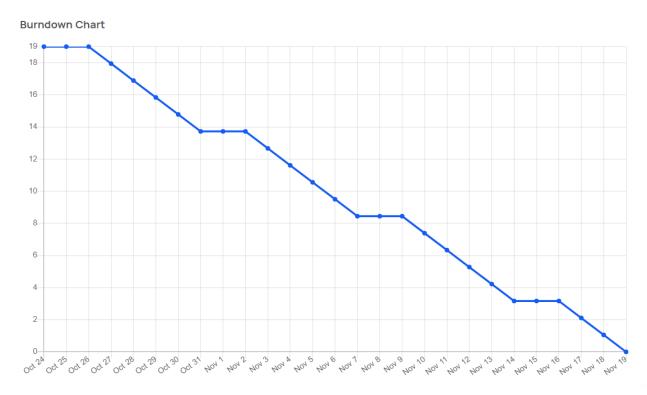
$$AV = sprint duration/velocity = 20/10 = 2$$

Average velocity:

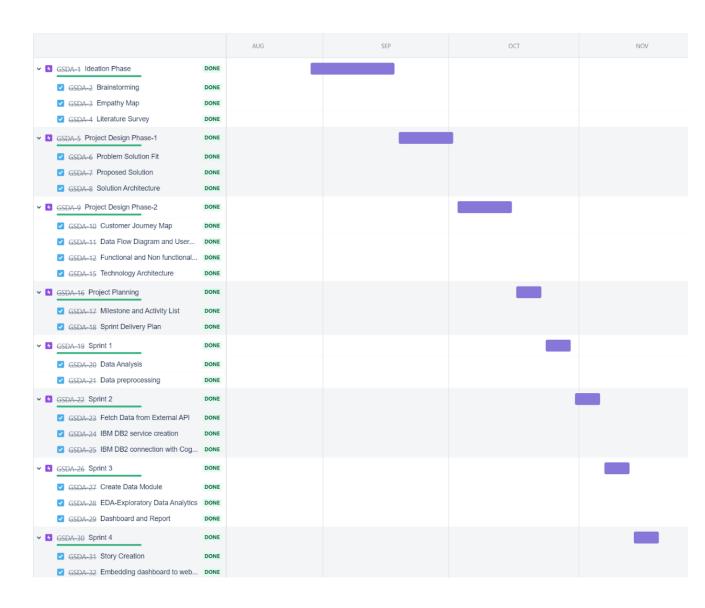
Average points per sprint = (6+6+4+3)/4 = (19)/4 = 4.75

Burndown Chart:

A burndown 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.



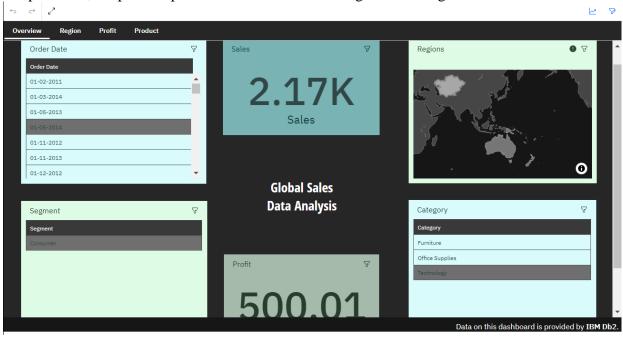
6.3. Reports from JIRA



7. CODING & SOLUTIONING

7.1. Feature 1 – Dashboard

We have made a highly interactive dashboard where the customer can filter based on their requirements. In our dashboard we have 4 tabs - Overview, Region, Profit ,Code. Our overview provides the customer to filter based on order_date, region, category and segment. In our region tab, we provide the sales/profit based on regions and countries. In our profit tab, we provide profit based on different categories and regions.





7.2. Feature 2 – Report

The report provides various insights regarding the global sales dataset. It gives a better understanding of the data to the customers. They can see where they gain the most profit, most sales, and many more.





7.3. Feature 3 – Story

The story is a small animation which provides customers a general idea about what our product does and why they need to use our product. It provides an over-time narrative and is used to convey a conclusion or recommendation. It is used to communicate the insights and analysis performed.



7.4. Database Schema

Table definition					: ×
Name	Data type	Nullable	Length	No stat Scale	istics available.
ROW_ID	INTEGER	Υ		0	
ORDER_ID	VARCHAR	Υ	30	0	©
ORDER_DATE	VARCHAR	Υ	10	0	o
SHIP_DATE	VARCHAR	Υ	10	0	0
SHIP_MODE	VARCHAR	Υ	20	0	0
CUSTOMER_ID	VARCHAR	Υ	30	0	0
CUSTOMER_NAME	VARCHAR	Υ	30	0	◎

Table definition				No stat	: X
Name	Data type	Nullable	Length	Scale	^
SEGMENT	VARCHAR	Υ	30	0	o
CITY	VARCHAR	Υ	30	0	©
STATE	VARCHAR	Υ	40	0	©
COUNTRY	VARCHAR	Υ	40	0	◎
POSTAL_CODE	INTEGER	Υ		0	©
MARKET	VARCHAR	Υ	30	0	©
REGION	VARCHAR	Υ	30	0	
4					+

Table definition : x

SALES

Name	Data type	Nullable	Length	Scale	
PRODUCT_ID	VARCHAR	Υ	30	0	©
CATEGORY	VARCHAR	Υ	30	0	0
SUB_CATEGORY	VARCHAR	Υ	30	0	0
PRODUCT_NAME	VARCHAR	Υ	200	0	0
SALES	DECIMAL	Υ	14	5	0
QUANTITY	SMALLINT	Υ		0	0
DISCOUNT	DECIMAL	Υ	7	3	0
PROFIT	DECIMAL	Υ	13	5	0
SHIPPING_COST	DECIMAL	Υ	7	2	0
ORDER_PRIORITY	VARCHAR	Υ	8	0	0
4					

8. TESTING

8.1. Test Cases

ID	Test Case Description	Test Steps	Test Data	Expected Outcome	Actual Outcome	Pass/ Fail
TC1	Viewing Dashboard	 Customer goes to our website Goes to the services provided Clicks the Dashboard service 	The customer goes to the dashboard page and views the various tabs in the dashboard.	The customer successfull y views the dashboard and can navigate through it.	As Expected	Pass
TC2	Applying filters to the dashboard	 Customer goes to our website Goes to the services provided Clicks the Dashboard service 	The customer applies various filters to the dashboard.	The filters are applied on the dashboard and the results are shown successfull y.	As Expected	Pass
TC3	Viewing Report	 Customer goes to our website Goes to the services provided Clicks the Report service 	The customer goes to the report page and views the various pages in the report.	The customer successfull y views the report and can navigate through it.	As Expected	Pass
TC4	Viewing Story	 Customer goes to our website Goes to the services provided Clicks the Story service 	The customer goes to the story page and views the stories and scenes.	The customer successfull y views the story and can see all the scenes.	As Expected	Pass

8.2. User Acceptance Testing

Multiple users were asked to navigate through our website and view the dashboard, reports and stories. The users applied various filters on the dashboard and the results were shown successfully. The users also viewed the reports and were able to gain valuable insights from them. They also viewed the stories and got various conclusions from them. Based on the feedback we come to a conclusion about the acceptability of our system.

Defect Analysis

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

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	4	2	3	20
Duplicate	0	2	0	0	2
External	1	3	1	0	5
Fixed	7	4	4	10	25
Not Reproduced	0	0	0	0	0
Skipped	0	0	0	0	0
Won't Fix	0	0	0	0	0
Totals	18	13	7	13	52

9. RESULTS

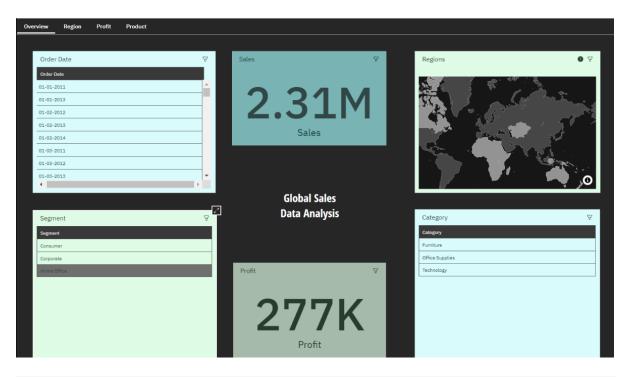
9.1. Performance Metrics

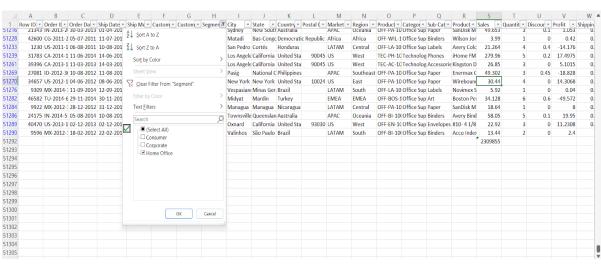
Verification of filter results:

We gauge the accuracy of the dashboard based on its similarity to the actual results. We use Microsoft Excel to verify the same.

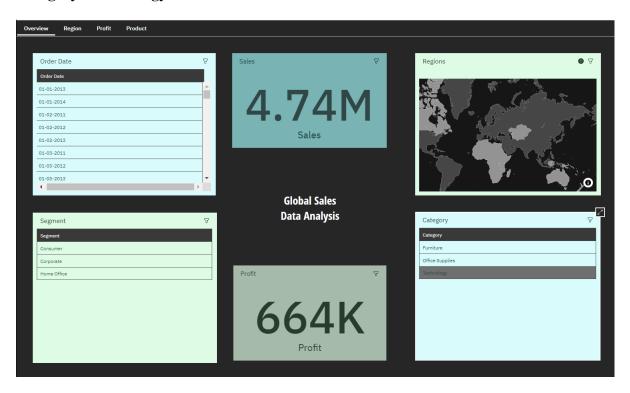
Screenshots from the dashboard:

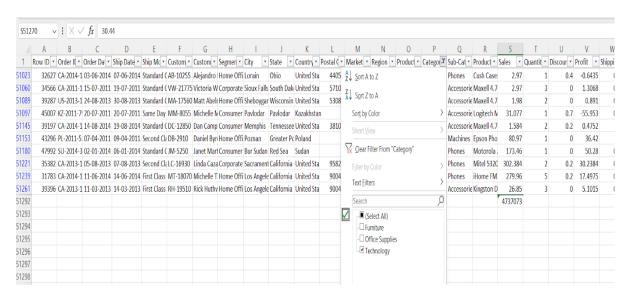
1. Segment: Home office



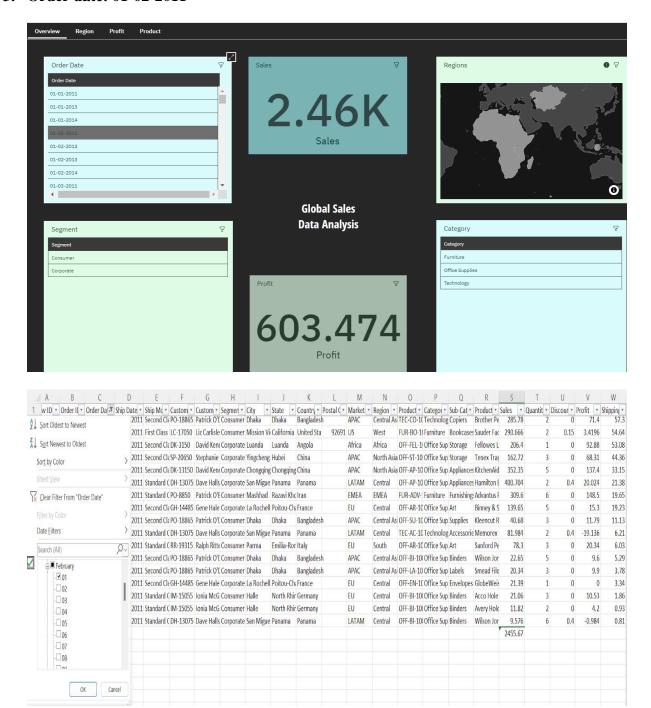


2. Category: Technology

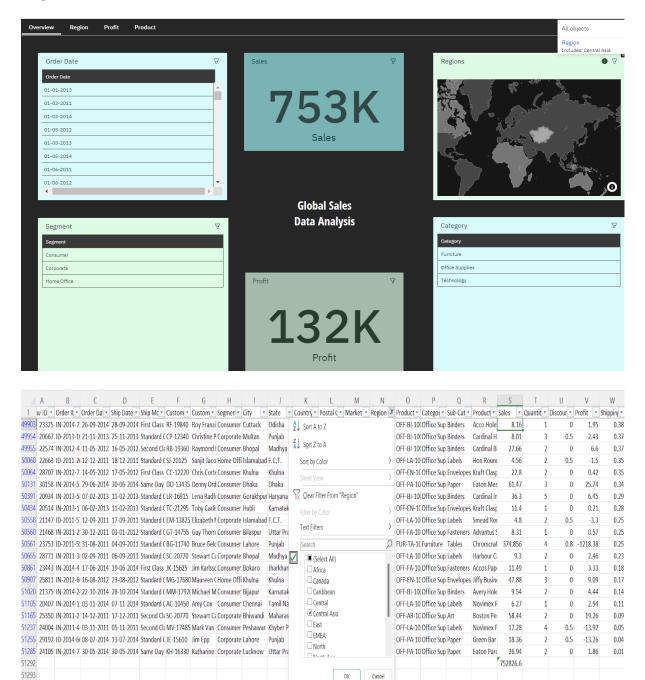




3. Order date: 01-02-2011



4. Region: Central Asia

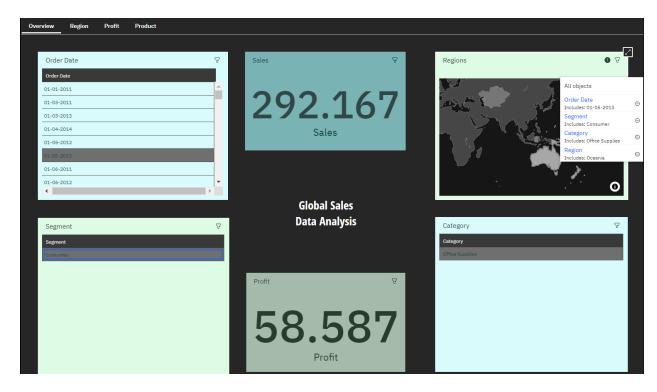


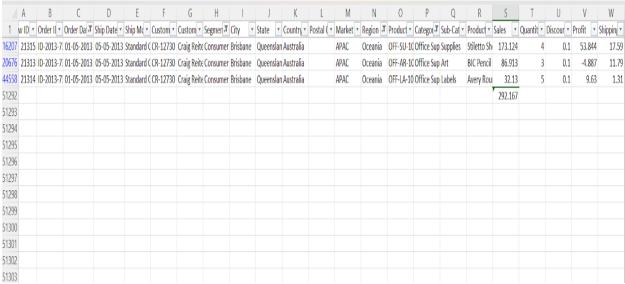
5. Composite filter:

a) Date: 01-05-2013b) Segment: Consumer

c) Category: Office Supplies

d) Region: Oceania





10. ADVANTAGES & DISADVANTAGES

***** ADVANTAGES:

a) Scalable System

Our system is built on IBM Cognos Analytics and uses a csv file. A CSV file can hold a very large number of rows and since we are using IBM Cognos Analytics, a widely used tool, it is highly scalable.

b) Usability

Our system works on a web application with a very simple and usable interface making it easy to use for anyone, even without a tech background. The usage is very easy to navigate and data is presented in a clean and usable manner to the end user.

c) Makes it easier for companies to make decisions

The companies can get various insights from our application and can easily make decisions to maximize profit by using these reports based on the visualizations.

d) Automates an otherwise tedious process

The traditional method of global sales analysis involves multiple human employees and takes a long time to process the data. Our system cuts down the time to a few seconds and helps automate and fastens the process manifold.

e) Does not require high level management involvement

Our system does not require involvement of people from higher ranks in the company. Anyone can input data into the system and view the various visualizations. This saves time for the people in the sales industry.

f) Highly Interactive dashboard.

Our system is highly interactive and the users can apply various filters to the dashboard to get the data they require in a very fast and easy method.

***** DISADVANTAGES:

a) Continuous upgradation of dataset

The disadvantage of this model is that the dataset cannot be updated dynamically and needs to be changed continuously.

b) Complexity

Another disadvantage is that the system, although easy to use, the code is complex for an average user to comprehend in case of any errors.

c) Maintenance

Updating the code to make use of new technologies and updating it in case of any errors can be considered as a disadvantage due to the complexity of the code.

11. CONCLUSION

A system that is used to provide analysis on global sales data was designed to eliminate the manual process which is predominant in the current scenario. The system was built using multiple tools and processes, Visualizations were done using IBM Cognos, web application was developed using HTML, CSS and JavaScript and the primary coding and integration was done using Bootstrap. This application can be used by the Global sales teams to gain various insights on their sales and make decisions to maximize profit. This system can be used by anyone owing to the simplicity and ease of access. It allows these teams to automate the analysis process and speed it up considerably to enhance the efficiency and effectiveness of understanding the data in the current scenario. The application was developed after a tremendous amount of research and understanding of the current data and how there was room was massive improvement. The final system is deployed on IBM Watson and is available for use by the global sales teams and other possible users who want to analyze their data and make decisions.

12. FUTURE SCOPE

The system built is a very scalable and deployable model. This broadens the scope of the project considerably. The system can be easily utilized by global sales teams and other companies to speed up their global sales data analysis and also reduce the error due to human negligence and bias. The dataset used can be constantly updated to make the analysis more accurate and dynamic and the systems scope is endless in this respect.

13. APPENDIX

Source Code:

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta content="width=device-width, initial-scale=1.0" name="viewport">
<title>Insights Today</title>
<meta content="" name="description">
```

```
<meta content="" name="keywords">
 <!-- Favicons -->
 k href="assets/img/favicon.png" rel="icon">
 k href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">
 <!-- Google Fonts -->
 link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,60
0i,700,700i|Raleway:300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300,300i
,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">
 <!-- Vendor CSS Files -->
 k href="assets/vendor/animate.css/animate.min.css" rel="stylesheet">
 <link href="assets/vendor/aos/aos.css" rel="stylesheet">
 k href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
 k href="assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
 k href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
 k href="assets/vendor/glightbox/css/glightbox.min.css" rel="stylesheet">
 k href="assets/vendor/remixicon/remixicon.css" rel="stylesheet">
 k href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">
 <!-- Template Main CSS File -->
 <link href="assets/css/style.css" rel="stylesheet">
 * Template Name: Multi - v4.9.1
 * Template URL: https://bootstrapmade.com/multi-responsive-bootstrap-template/
 * Author: BootstrapMade.com
 * License: https://bootstrapmade.com/license/
</head>
```

```
<body>
 <!-- ===== Header ====== -->
 <header id="header" class="fixed-top">
  <div class="container d-flex align-items-center justify-content-between">
   <h1 class="logo"><a href="index.html">SSNCE</a></h1>
   <!-- Uncomment below if you prefer to use an image logo -->
   <!-- <a href="index.html" class="logo"><img src="assets/img/logo.png" alt=""
class="img-fluid"></a>-->
   <nav id="navbar" class="navbar">
    \langle ul \rangle
     <a class="nav-link scrollto active" href="#hero">Home</a>
     <a class="nav-link scrollto" href="#about">About</a>
     <a class="nav-link scrollto" href="#services">Services</a>
     <a class="nav-link scrollto" href="#team">Team</a>
     <a class="nav-link scrollto" href="#contact">Contact</a>
     <!-- <li><a class="getstarted scrollto" href="#about">Get Started</a> -->
    <i class="bi bi-list mobile-nav-toggle"></i>
   </nav><!-- .navbar -->
  </div>
 </header><!-- End Header -->
 <!-- ===== Hero Section ====== -->
 <section id="hero">
  <div id="heroCarousel" data-bs-interval="5000" class="carousel slide carousel-</p>
fade" data-bs-ride="carousel">
```

```
<div class="carousel-inner" role="listbox">
    <!-- Slide 1 -->
    <div class="carousel-item active" style="background-image:</pre>
url(assets/img/slide/slide-1.jpg)">
     <div class="carousel-container">
      <div class="container">
       <h2 class="animate__animated_nimate__fadeInDown">Welcome to
<span>Insights Today!</span></h2>
        This is a project
undertaken as part of the IBM Nalaiya Thiran Learning Program.
         We aspire to bring to you a world class dashboard giving you the best
insights on Global Sales Data. In addition to this, you
         will also find a report and a story.
       <a href="#about" class="btn-get-started animate__animated"
animate__fadeInUp scrollto">Read More</a>
      </div>
     </div>
    </div>
   </div>
  </div>
 </section>
 <!-- End Hero -->
 <main id="main">
  <!-- ===== About Section ====== -->
  <section id="about" class="about">
   <div class="container" data-aos="fade-up">
    <div class="section-title">
     <h2>About</h2>
```

```
About Us</div></div><div class="row content"><div class="col-lg-6">
```

We are a small team of four, aspiring to make a difference to the world with a combination of technical skills and business acumen.

<i class="ri-check-double-line"></i> We create dynamic dashboards to help companies make smarter business decisions.

<i class="ri-check-double-line"></i> We generate the best reports on
sales in order to help our clients gain clarity and insights into their data!

<i class="ri-check-double-line"></i> We make story videos that are the
best tool of representation to make data visualisations for our users easy-to-use and
helpful.

```
<i class="bi bi-emoji-smile"></i>
        <span data-purecounter-start="0" data-purecounter-end="124" data-</pre>
purecounter-duration="1" class="purecounter"></span>
        <strong>Happy Clients</strong>
        <a href="#">Find out more &raquo;</a>
       </div>
     </div>
     <div class="col-lg-3 col-md-6 d-md-flex align-items-md-stretch">
       <div class="count-box">
        <i class="bi bi-journal-richtext"></i>
        <span data-purecounter-start="0" data-purecounter-end="124" data-</pre>
purecounter-duration="1" class="purecounter"></span>
        <strong>Projects</strong>
        <a href="#">Find out more &raquo;</a>
       </div>
     </div>
     <div class="col-lg-3 col-md-6 d-md-flex align-items-md-stretch">
       <div class="count-box">
        <i class="bi bi-headset"></i>
        <span data-purecounter-start="0" data-purecounter-end="780" data-</pre>
purecounter-duration="1" class="purecounter"></span>
        <strong>Hours Of Support</strong>
        <a href="#">Find out more &raquo;</a>
       </div>
     </div>
     <div class="col-lg-3 col-md-6 d-md-flex align-items-md-stretch">
       <div class="count-box">
        <i class="bi bi-people"></i>
        <span data-purecounter-start="0" data-purecounter-end="4" data-</pre>
purecounter-duration="1" class="purecounter"></span>
        <strong>Hard Workers</strong>
```

```
<a href="#">Find out more &raquo;</a>
       </div>
      </div>
     </div>
   </div>
  </section>
  <!-- End Counts Section -->
  <!-- ===== Services Section ====== -->
  <section id="services" class="services">
   <div class="container" data-aos="fade-up">
    <div class="section-title">
      <h2>Services</h2>
      Check our Services
    </div>
    <div class="row">
      <div class="col-lg-4 col-md-6 d-flex align-items-stretch" data-aos="zoom-in"</pre>
data-aos-delay="100">
       <div class="icon-box">
        <div class="icon"><i class="bx bxl-dribbble"></i></div>
        <h4><a href="dashboard.html">Dashboard</a></h4>
        <Click here to access our dashboard on Global Sales Data Analytics.</p>
       </div>
      </div>
      <div class="col-lg-4 col-md-6 d-flex align-items-stretch mt-4 mt-md-0" data-</pre>
aos="zoom-in" data-aos-delay="200">
       <div class="icon-box">
        <div class="icon"><i class="bx bx-file"></i></div>
        <h4><a href="report.html">Report</a></h4>
        Click here to access our report on Global Sales Data Analytics.
```

```
</div>
     </div>
     <div class="col-lg-4 col-md-6 d-flex align-items-stretch mt-4 mt-lg-0" data-</pre>
aos="zoom-in" data-aos-delay="300">
       <div class="icon-box">
        <div class="icon"><i class="bx bx-tachometer"></i></div>
        <h4><a href="story.html">Story</a></h4>
        <P>Click here to access our story on Global Sales Data Analytics.
       </div>
     </div>
   </div>
  </section><!-- End Services Section -->
  <!-- ===== Team Section ====== -->
  <section id="team" class="team section-bg">
   <div class="container" data-aos="fade-up">
    <div class="section-title">
     <h2>Team</h2>
     Check our Team - PNT2022TMID53156
    </div>
    <div class="row">
     <div class="col-xl-3 col-lg-4 col-md-6">
       <div class="member" data-aos="zoom-in" data-aos-delay="100">
        <img src="assets/img/team/team-1.jpg" class="img-fluid" alt="">
        <div class="member-info">
         <div class="member-info-content">
          <h4>Aman Jain</h4>
          <span>Team Leader</span>
```

```
</div>
  </div>
 </div>
</div>
<div class="col-xl-3 col-lg-4 col-md-6" data-wow-delay="0.1s">
 <div class="member" data-aos="zoom-in" data-aos-delay="200">
  <img src="assets/img/team/team-2.jpg" class="img-fluid" alt="">
  <div class="member-info">
   <div class="member-info-content">
    <h4>Ashwini Sridar Athreya</h4>
    <span>Team Member
   </div>
  </div>
 </div>
</div>
<div class="col-xl-3 col-lg-4 col-md-6" data-wow-delay="0.2s">
 <div class="member" data-aos="zoom-in" data-aos-delay="300">
  <img src="assets/img/team/team-3.jpg" class="img-fluid" alt="">
  <div class="member-info">
   <div class="member-info-content">
    <h4>Mathanggi</h4>
    <span>Team Member</span>
   </div>
  </div>
 </div>
</div>
<div class="col-xl-3 col-lg-4 col-md-6" data-wow-delay="0.3s">
 <div class="member" data-aos="zoom-in" data-aos-delay="400">
  <img src="assets/img/team/team-4.jpg" class="img-fluid" alt="">
  <div class="member-info">
   <div class="member-info-content">
    <h4>Vaishnavi Chellappa</h4>
```

```
<span>Team Member</span>
      </div>
     </div>
    </div>
   </div>
  </div>
 </div>
</section>
<!-- End Team Section -->
<!-- ===== Contact Section ====== -->
<section id="contact" class="contact section-bg">
 <div class="container" data-aos="fade-up">
  <div class="section-title">
   <h2>Contact</h2>
   Contact Us
  </div>
  <div class="row">
   <div class="col-lg-6">
    <div class="row">
     <div class="col-md-12">
      <div class="info-box">
       <i class="bx bx-map"></i>
        <h3>Our Address</h3>
        >
         SSN College of Engineering <br/> <br/>
      SH 49A, Kalavakkam, <br>
      Tamil Nadu - 603110<br><br>>
```

```
</div>
        </div>
        <div class="col-md-6">
         <div class="info-box mt-4">
          <i class="bx bx-envelope"></i>
          <h3>Email Us</h3>
          T3156@insightstoday.in<br/>br>support@insightstoday.in
         </div>
        </div>
        <div class="col-md-6">
         <div class="info-box mt-4">
          <i class="bx bx-phone-call"></i>
          <h3>Call Us</h3>
          +044 2746 9700<br>+044 2746 9701
         </div>
        </div>
       </div>
     </div>
     <div class="col-lg-6">
      <form action="forms/contact.php" method="post" role="form" class="php-
email-form">
        <div class="row">
         <div class="col-md-6 form-group">
          <input type="text" name="name" class="form-control" id="name"</pre>
placeholder="Your Name" required>
         </div>
         <div class="col-md-6 form-group mt-3 mt-md-0">
          <input type="email" class="form-control" name="email" id="email"</pre>
placeholder="Your Email" required>
         </div>
```

```
</div>
        <div class="form-group mt-3">
         <input type="text" class="form-control" name="subject" id="subject"</pre>
placeholder="Subject" required>
        </div>
        <div class="form-group mt-3">
         <textarea class="form-control" name="message" rows="5"
placeholder="Message" required></textarea>
        </div>
        <div class="my-3">
         <div class="loading">Loading</div>
         <div class="error-message"></div>
         <div class="sent-message">Your message has been sent. Thank you!</div>
        </div>
        <div class="text-center"><button type="submit">Send
Message</button></div>
       </form>
      </div>
    </div>
   </div>
  </section>
  <!-- End Contact Section -->
 </main>
 <!-- End #main -->
 <!-- ===== Footer ===== -->
 <footer id="footer">
  <div class="footer-top">
   <div class="container">
    <div class="row">
```

```
<div class="footer-info">
       <h3>Insights Today</h3>
       <em>To contact us:</em>
        >
         SSN College of Engineering <br>
         SH 49A, Kalavakkam, <br>
         Tamil Nadu - 603110<br><br>
         <strong>Phone:</strong> +91 8248731703<br>
         <strong>Email:</strong> T3156@cse.ssn.edu.in<br>
       <div class="social-links mt-3">
         <a href="#" class="twitter"><i class="bx bxl-twitter"></i></a>
         <a href="#" class="facebook"><i class="bx bxl-facebook"></i></a>
         <a href="#" class="instagram"><i class="bx bxl-instagram"></i></a>
         <a href="#" class="google-plus"><i class="bx bxl-skype"></i></a>
         <a href="#" class="linkedin"><i class="bx bxl-linkedin"></i></a>
       </div>
      </div>
     </div>
     <div class="col-lg-4 col-md-6 footer-newsletter">
      <h4>Our Newsletter</h4>
      To subscribe to our services, please type your email below.
      <form action="" method="post">
       <input type="email" name="email"><input type="submit"</pre>
value="Subscribe">
      </form>
     </div>
    </div>
   </div>
  </div>
```

<div class="col-lg-4 col-md-6">

```
<div class="container">
   <div class="copyright">
    © Copyright <strong><span>Insights Today</span></strong>. All Rights
Reserved
   </div>
   <div class="credits">
    Designed by SSNCE team - 3156
   </div>
  </div>
 </footer>
 <!-- End Footer -->
 <div id="preloader"></div>
 <a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i
class="bi bi-arrow-up-short"></i></a>
 <!-- Vendor JS Files -->
 <script src="assets/vendor/purecounter/purecounter_vanilla.js"></script>
 <script src="assets/vendor/aos/aos.js"></script>
 <script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
 <script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
 <script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
 <script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
 <script src="assets/vendor/php-email-form/validate.js"></script>
 <!-- Template Main JS File -->
 <script src="assets/js/main.js"></script>
</body>
</html>
```

dashboard.html

```
<html>
<body style="background-color:black;">
<br>
<br>
<title>Dashboard</title>
<a href="index.html">
  <button style="background-color: rgb(227, 97, 62); border-radius:4px;margin-left:</pre>
50px; font-size: 25px; font-family: 'Times New Roman', Times, serif;''>
    Home
  </button>
</a>
<center><h1 style="color:grey;font-size:45;font-family: Times New Roman';text-</pre>
align:center">Dashboard</center></h1>
<br>
<br>
<br>
<center>
<iframe
src="https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my
_folders%2FGlobal%2BSales%2BData%2BAnalytics%2B-
%2BDeliverables%2FSales%2BDashboard&closeWindowOnLastView=true&a
mp;ui appbar=false&ui navbar=false&shareMode=embedded&action
=view&mode=dashboard&subView=model000001847fb9ce82_00000000"
width="1500" height="1000" frameborder="0" gesture="media" allow="encrypted-
media" allowfullscreen=""></iframe>
</center>>
</body>
</html>
```

Report.html

```
<html>
<body style="background-color:black;">
<br>
<br>>
<title>Report</title>
<a href="index.html">
<button style="background-color: rgb(227, 97, 62); border-radius:4px;margin-left:</pre>
50px; font-size: 25px; font-family: 'Times New Roman', Times, serif;''>
  Home
</button>
</a>
<center><h1 style="color:grey;font-size:45;font-family: "Times New Roman';text-</pre>
align:center">Report</center></h1>
<br/>br>
<br>
<br>
<center>
  <iframe
src="https://us1.ca.analytics.ibm.com/bi/?pathRef=.my_folders%2FGlobal%2BSales
%2BData%2BAnalytics%2B-
%2BDeliverables%2FSales%2BReport%2BFinal&closeWindowOnLastView=tr
ue&ui_appbar=false&ui_navbar=false&shareMode=embedded&
action=edit" width="900" height="700" frameborder="0" gesture="media"
allow="encrypted-media" allowfullscreen=""></iframe>
</center>
</body>
</html>
```

Story.html

```
<html>
<body style="background-color:black;">
<br>
<br>
<title>Story</title>
<a href="index.html">
  <button style="background-color: rgb(227, 97, 62); border-radius:4px;margin-left:</pre>
50px; font-size: 25px; font-family: 'Times New Roman', Times, serif;''>
    Home
  </button>
</a>
<center><h1 style="color:grey;font-size:45;font-family: 'Times New Roman';text-</pre>
align:center">Story</center></h1>
<br>
<center>
  <iframe
src="https://us1.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_fold
ers%2FGlobal%2BSales%2BData%2BAnalytics%2B-
%2BDeliverables%2FSales%2BStory&closeWindowOnLastView=true&ui
_appbar=false&ui_navbar=false&shareMode=embedded&action=vie
w&sceneId=model00000184819d52db 00000003&sceneTime=1150"
width="800" height="600" frameborder="0" gesture="media" allow="encrypted-
media" allowfullscreen=""></iframe>
</center>
<br>
<br>
</body>
</html>
```

❖ GitHub & Project Demo Link

GitHub link:

https://github.com/IBM-EPBL/IBM-Project-12502-1659452330

Project Demo link:

https://drive.google.com/file/d/1dmZD9airlw6gFgWZQAVCWqoUoZOXnfR-/view