Project Report Format

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1. INTRODUCTION

1.1 PROJECT OVERVIEW

DHL Logistics Facilities is concerned with getting the products and services where they are needed and when they are desired with the help of Data Analytics. It is difficult to accomplish any marketing or manufacturing without logistical support. It involves the integration of information, transportation, inventory, warehousing, material handling, and packaging.

1.2 PURPOSE

Real-time process optimization and simulation are becoming increasingly important tools for supply chain management. As worldwide complexity grows, the ability to run global supply chains at peak efficiency becomes more and more challenging. Warehouse operators and supply chain managers can make better decisions with granular visibility of processes like order management, and inventory levels and resource utilization become transparent in live dashboards. we understand that dynamic technology markets demand dynamic solutions. So we seek strong partnerships with every customer, envisaging and creating the connections to achieve business success. You can rely on our unrivalled global reach, experience and engagement. We'll help you to imagine and enable new approaches and solutions. Together we will push the pace of change. And always we will enrich your experience with our industry-leading logistics services.

2. LITERATURE SURVEY

2.1 EXISTING PROBLEM

In existing system, DHL is a global expertise in express, air and ocean freight, overland transport and logistics solutions; DHL combines worldwide coverage with an in-depth understanding of local markets. DHL India has an outstanding reputation in the market for providing a reliable, fast and easy-to-use service. DHL offers Highly trained and professional staff, committed to being responsive to all customers' needs Customer Service Agents, available round-the-clock, 365 days of the year, to serve customers whenever and wherever they need them. Electronic pre-clearance of shipments through Customs Five international gateways proving direct-to-air networks and faster sorting of inbound and outbound shipments.

DHL India is a proven facilitator of trade, across the globe. His strength lies in our global network and the know-how of our people. Backed by strategic alliances with world-class partners and the innovative use of technology, they strive to continuously improve the quality of our service. Our services range from fast, responsive and cost effective express deliveries toe-commerce fulfillment and intelligent logistics solutions. DHL Core Services consist of

door-to-door air express delivery of documents and parcels of all sizes (and weight), both into and out of the country. Other value added services are a.Kitting/Pre-Assembling

Kitting is the addition of items such as accessories and batteries to the product pack. Pre-assembling is completion of a finished product from component parts or pre-programming of products.

b. Re-Working/Re-Packing

Repacking for a specific customer can include repalletisation. Reworking is the modification of products to suit a local market.

c. Packaging/Bundling

Packaging includes packing of products into suitable media for transportation and retail display. Bundling is the assembly of a number of prepackaged products to make up an integrated product offering

d. QA Control

Quality control ensures that product is received into and dispatched from the warehouse in a suitable condition, free from faults and defects. e. Labeling/Merchandising The application of labels either to the product or to the packaging Merchandising can include the addition of price stickers or promotional items ready for retail display.

2.2 REFERENCES

Aaker, D. A. (2001), Strategic market management. John Wiley & Sons, Inc. Courier Westford, United States of America.

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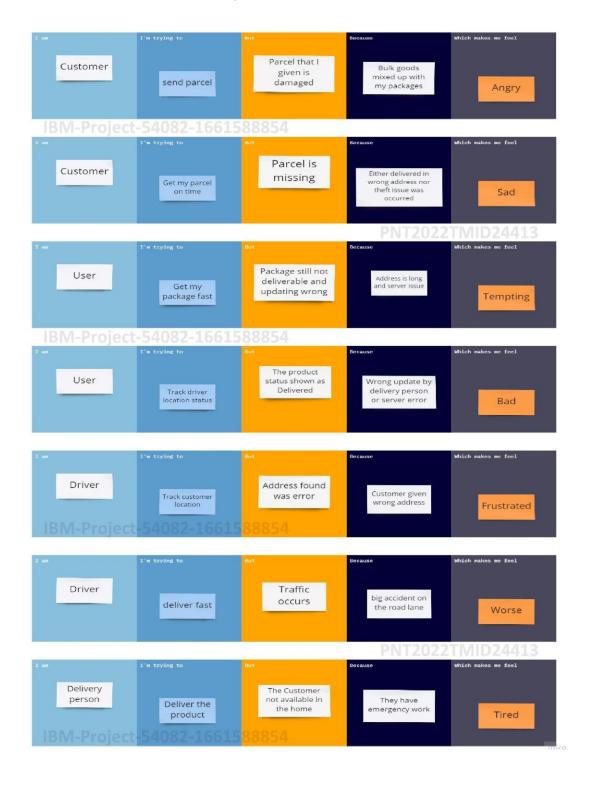
Gronroos, C. (2000), Service Management and Marketing: A Customer Relationship Management Approach, Wiley, Chichester.

Heding, T., Knudtzen, C. F. & Bjerre, M. (2008), Brand Management - Research, Theory and Practice. u.o.:Routledge.

Hyder, A. S & Abraha, D. (2003), Strategic alliances in Eastern and Central Europe, Pergamon, An Imprint of Elsevier Science. United States of America.

2.3 PROBLEM STATEMENT DEFINITION

Customer Problem Statement Template:



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Customer	send parcel	Parcel that I given is damaged	Bulk goods mixed up with my packages	Angry
PS-2	Customer	Get my parcel on time	Parcel is missing	Either delivered in wrong address nor theft issue was occurred	Sad
PS-3	User	Get my package fast	Package still not deliverable and updating wrong	Address is long and server issue	Tempting
PS-4	User	Track driver location status	The product status shown as Delivered	Wrong update by delivery person or server error	Bad
PS-5	Driver	Track customer location	Address found was error	Customer given wrong address	Frustrated
PS-6	Driver	deliver fast	Traffic occurs	big accident on the road lane	Worse
PS-7	Delivery person	Deliver the product	The Customer not avail in the home	They have emergency work	Tired

3. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes.

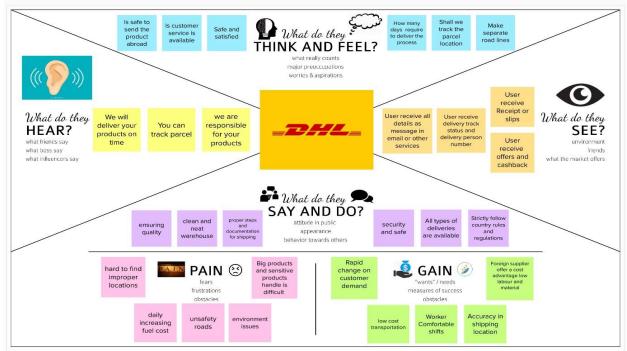
It is a useful tool to helps teams better understand their users.

Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.

Example: Data Analytics for DHL Logistics Facilities

Empathy Map for DHL Logistics Facilities

Gain insight and understanding on solving customer problems.



TEAM DETAILS: Data Analytics for DHL Logistics Facilities [IBM-Project-54082-1661588854]

Team Lead: Surya R

Team Members: Surya K, Keshav J, Subash M

Team Id: PNT2022TMID24413

3.2 IDEATION AND BRAINSTORMING

BRAINSTORM AND IDEA PRIORITIZATION TEMPLATE

Brainstorming provides a free and open environment that encourages everyone

within a team to participate in the creative thinking process that leads to

problem solving. Prioritizing volume over value, out-of-the-box ideas are

welcome and built upon, and all participants are encouraged to collaborate,

helping each other develop a rich amount of creative solutions.

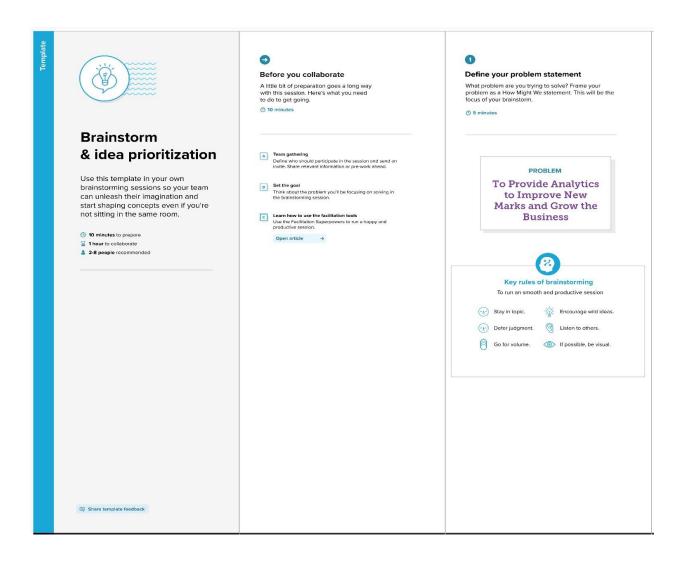
Use this template in your own brainstorming sessions so your team can unleash

their imagination and start shaping concepts even if you're not sitting in the

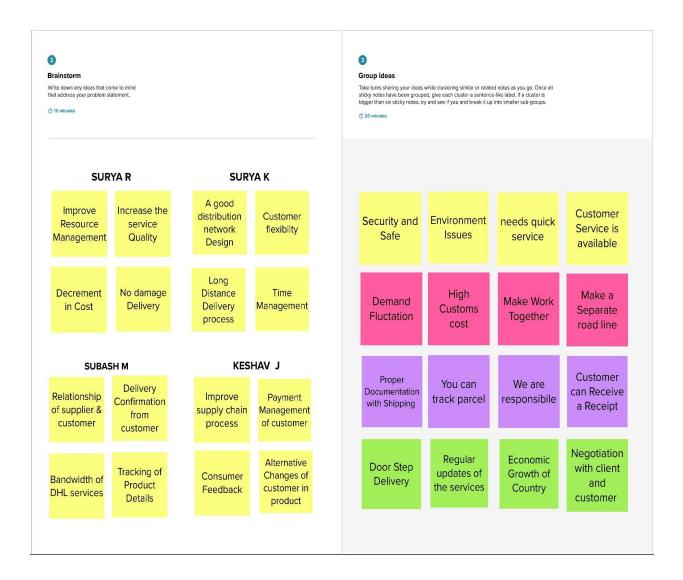
same room.

Reference: https://www.mural.co/templates/empathy-map-canvas

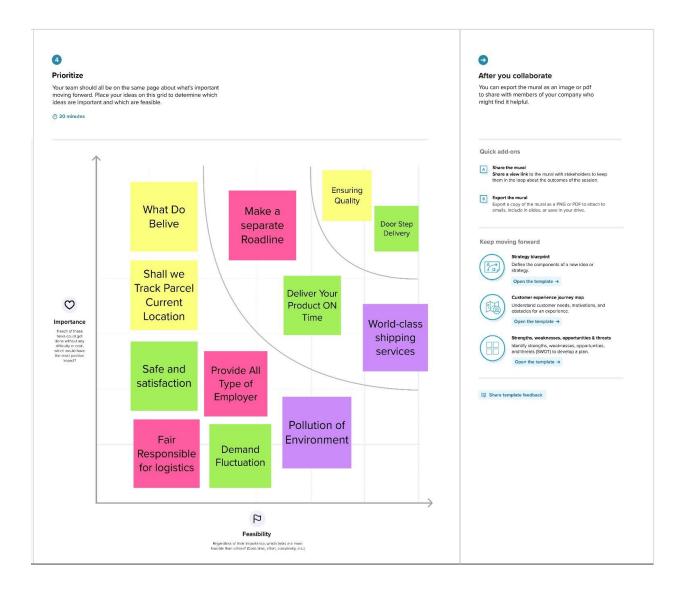
Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping



Step-3: Idea Prioritization



3.3 PROPOSED SOLUTION

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description	
1.	Problem Statement (Problem	A company's profitability may be	
	to be solved)	severely impacted by continually	
		shifting dynamics brought about by	
		the global nature of the supply	
		chain. The enormous burden that	
		the COVID pandemic placed on	
		logistics made this clear. As a	
		result, manufacturers, shippers, and	
		retailers are using data analytics to	
		better understand their processes	
		and optimise them in order to be	
		more prepared for unforeseen	
		events. Data-driven businesses are	

		growing their profit margins and
		customer satisfaction levels as a
		result.
2.	Idea / Solution description	New technology plays a vital part in
		improving operations, removing
		costs and improving customer
		service. With DHL you like
		technology advances and
		investments as we constantly
		review, evaluate and adopt new
		technological solutions. Augmented
		Reality, for instance, is already
		getting used to optimize warehouse
		processes, while a spread of
		automated guided vehicles and
	<u> </u>	

		robots are being tested and assessed
		for future deployment.
3.	Novelty / Uniqueness	The specialist knowledge of your
		team has been the foundation for
		your company's success. By
		entrusting DHL with your logistics,
		you can concentrate on your core
		business rather than being side
		tracked by the requirements and
		complications of the global supply
		chain. DHL offers a wide range of
		ready-to-use solutions,
		technologies, and assets that would
		otherwise take a lot of time and
		money to implement, freeing up
		your cash to expand your business
	<u> </u>	

		in other ways. Furthermore,		
		outsourcing your logistics allows		
		you the freedom to quickly scale up		
		and down in response to new		
		opportunities or issues with the least		
		amount of risk.		
4.	Social Impact / Customer	Customers want to understand		
	Satisfaction	when their items are delivered and		
		whether a package's expected		
		arrival date are later than expected.		
		Customers are often happier as they		
		get more knowledgeable. Real-time		
		or nearly real-time status updates		
		are now possible, and businesses		
		that make it simple for purchasers		
		to urge these logistics updates will		
		enjoy higher customer satisfaction.		
		Additionally, data can improve		

		customer satisfaction in ways aside
		from just shipping monitoring.
5.	Business Model (Revenue	1 – Broker model This is the most
	Model)	common way 3PL works, and the
		one most organizations are probably
		familiar with. In the broker model, a
		3PL buys cargo space in bulk from
		carriers and resells the space to its
		own customers at a premium.
		Oversized, his 3PL can afford to
		purchase large amounts of cargo
		space without delay, and can take
		advantage of economies of scale to
		significantly reduce costs. Even
		with a premium, they're still dealing
		with less than most sole proprietors

could die for outright. 2 – Profit sharing With a profit-sharing model , 3PL works directly with customers to reduce costs. 3

- Fee model In the commission model , the 3PL

"works" for the carrier and acts as an intermediary between the carrier and the buyer. From there, it works like some standard commission-based system. Fee models offer a lot of transparency within the process, and in many cases 3PLs can rely on carrier proprietary technology, which rarely leads to the most effective technical solutions.

6. Scalability of the Solution

As market growth requires an expansion of your distribution network, you ideally desire a partner that incorporates a presence within the markets where you wish help. the choice to tapping into a scalable logistics infrastructure is either working with a replacement provider (new relationships to manage, new systems to integrate) or pushing an existing provider to enter new, unfamiliar markets. Look for partners who can walk the talk when it involves exchanging data between your two systems. The provider's size doesn't necessarily correlate with a classy IT capability. Vet providers

return to bite you. The largest 3PL providers will have virtually unlimited scale — a hugely attractive benefit. But their interest is also limited to serving only the most important companies out there. If that's not you, you'll find yourself being the proverbial small fish within the big pond.

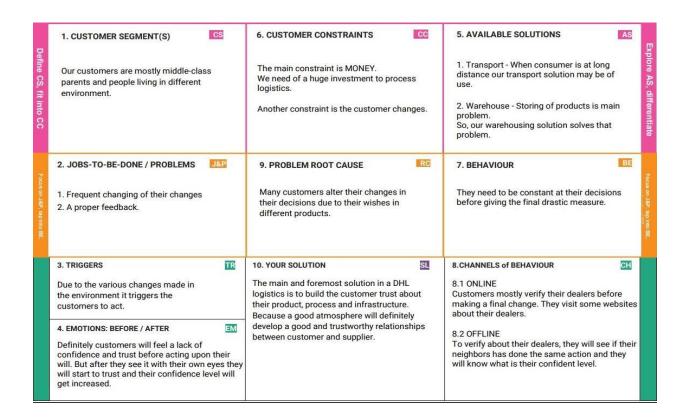
3.4 PROBLEM SOLUTION FIT

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

Purpose:

- → Solve complex problems in a way that fits the state of your customers.
- → Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behavior.
- → Sharpen your communication and marketing strategy with the right triggers and messaging.
- → Increase touch-points with your company by finding the right problembehavior fit and building trust by solving frequent annoyances, or urgent or costly problems.
- → Understand the existing situation in order to improve it for your target group.

TEMPLATE



REFERENCES:

- 1. https://www.ideahackers.network/problem-solution-fit-canvas/
- 2. https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe

4. REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

Following are the functional requirements of the proposed solution.

FR	Functional Requirement	Sub Requirement (Story / Sub-Task)			
No.	(Epic)				
FR-1	User Registration	Registration through any google account or			
		social media accounts.			
FR-2	User Confirmation	Confirmation via Email			
		Confirmation via OTP			
FR-3	Dataset	The DHL_Facilities.csv record are collected as			
		a dataset and upload to Cognos analytics			
FR-4	Prepare/Analyse	The dataset is moved around to prepare and			
		analyse using Cognos			
FR-5	Exploration	The data are explored using logistics dataset by			
		Cognos			
FR-6	Dashboard	The Prepared and Explored data are Visualize			
		and created in different type of dashboards. i.e.,			
		charts, graphs, tree, reports, summary, etc			

4.2 NON-FUNCTIONAL REQUIREMENTS

Following are the functional requirements of the proposed solution.

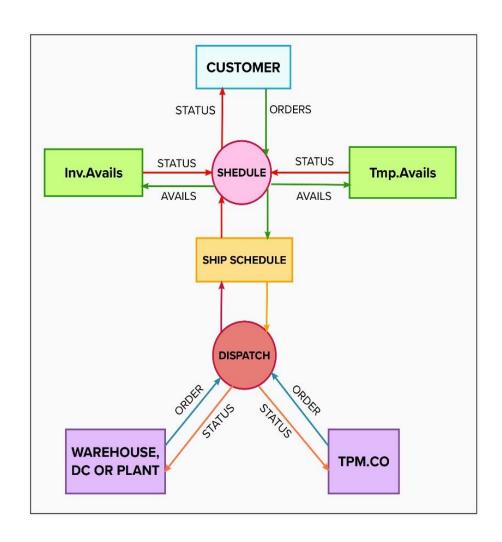
FR	Functional	Sub Requirement (Story / Sub-Task)	
No.	Requirement (Epic)		
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FR-2	User Confirmation	Confirmation via Email	
		Confirmation via OTP	
FR-3	Dataset	The DHL_Facilities.csv record are	
		collected as a dataset and upload to Cognos	
		analytics	
FR-4	Prepare/Analyse	The dataset is moved around to prepare	
		and analyse using Cognos	
FR-5	Exploration	The data are explored using logistics	
		dataset by Cognos	

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.

Example: (DHLRecommender)



5.2 SOLUTION AND TECHNICAL ARCHITECTURE

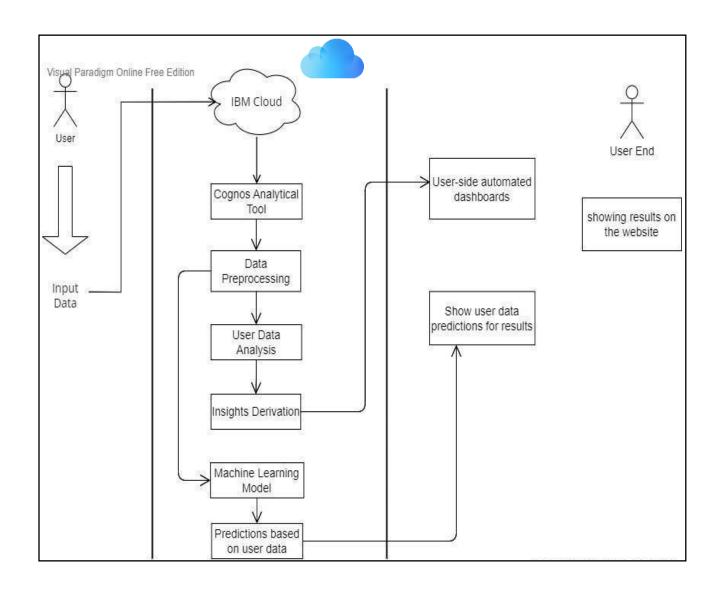


TABLE 1-COMPONENTS AND TECHNOLOGIES

S.No	Component	Description	Technology
1.	User Interface	User uploads the csv or excel format files into the web pages	HTML, CSS, JavaScript
2.	Application Logic-1	The user data will pass into the IBM cloud for storing and acts as a data source	IBM cloud
3.	Application Logic-2	In cloud, data will be fetched by the Cognos analytical tool for data analysis	IBM Cognos analytical tool
4.	Application Logic-3	The pre-trained Dashboards will be present to perform analysis on the incoming data	IBM Cognos analytical tool
5.	Database	Data will be retrieved from cloud	MySQL
6.	Cloud Database	Database Service on cloud	IBM DB2, IBM Cloud
7.	File Storage	Customer sales data is uploaded in cloud through interface	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	To perform data analysis on the user data	IBM Cognos Tool
9.	External API-2	To build the machine learning model for classification	Jupiter Notebook
10.	Machine Learning Model	To do the predictive analysis on the input data	Predictive analysis model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Using the flask Cloud Server Configuration: IBM cloud	Local, Cloud Foundry

TABLE 2-APPLICATION CHARCTERISTICS

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource
			framework
2.	Security Implementations	List all the security / access controls	e.g., SHA-256, Encryptions,
		implemented, use of firewalls etc.	IAM Controls, OWASP etc.
2	C 111 A 12	T (C 4 1177 C 177)	
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro- services)	Technology used
		(5 – tiet, where- services)	
4.	Availability	Justify the availability of application	Technology used
		(e.g., use of load balancers,	
		distributed servers etc.)	
5.	Performance	Design consideration for the	Technology used
		performance of the application	
		(number of requests per sec,	
		use of Cache, use of CDN's)	
		etc.	

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook	Low	Sprint-2
		USN-4	As a user, I can register for the	I can register & access the	Medium	Sprint-1

			application through	dashboard with		
			Gmail	Gmail Login		
	Login	USN-5	As a user, I can log	I can login into	High	Sprint-1
			into the application	the application		
			by entering email	with Gmail		
			& password	login		
	Dashboard	USN-6	As a user I can use	I can access the	High	Sprint-2
			the methods	dashboard with		
			provided in the	various		
			Dashboard.	methods		
Customer Care	Login	USN-7	As a Customer	I can login with	Medium	Sprint-1
Executive			Care Executive, I	my credentials		
			can log into the			
			application by			
			entering my			
			Executive email Id			
			& password			
	Service	USN-8	As a Customer	I can give the	High	Sprint-3
			Care Executive, I	solutions to the		
			can answer user's	user's queries		
			queries			

Administrator	Login	USN-9	As an	I can login with	High	Sprint-1
			Administration, I	my credentials		
			can log into			
			the application by			
			entering my			
			Administer email			
			Id & password			
	Access	USN-10	As an admin, I can	I have a full	High	Sprint-3
			make changes to	access to the		
			the interface	application		
			according the			
			needs			
Customer	Tools	USN-11	I can perform	I have an ease	High	Sprint 1
tools			analysis by tools	of Accessing		
			(Cognos and with	tools.		
			ML)			

5.3 USER STORIES

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

User Story / Task

As a user, I can register & log into the application by entering email & password

As a user, I can verify the email with given otp and check for correct subscription access

As an admin I can define questions & goals then collect data & provide the dataset in IBM Cognos analytics

As an admin I can prepare, explore & present the dataset in IBM Cognos analytics

As an admin, I will analyze the given dataset (Data pre-processing)

As an admin, I will predict the length of stay (Prediction)

As a user, I can select the visualization type like

Report, Dashboard and story (Creating visualization)

As a user, I can upload the datasets to the dashboard and view visualizations

As an admin, I can communicate to the client for user queries and visualize the best dashboards in any platform as a user expected

6. PROJECT PLANNING & SCHEDULING

SPRINT PLANNING & ESTIMATION & DELIVERY & JIRA FILES

Use the below template to create product backlog and sprint schedule

Sprint	Functional	User	User Story / Task	Story	Priority	Team
	Requirement	Story		Points		Members
	(Epic)	Number				
Sprint-1	Login	USN-1	As a user, I can register &	10	High	Surya R
			log into the application by			
			entering email & password			
Sprint-1	Verify	USN-2	As a user, I can verify the	10	High	Keshav J
			email with given otp and			
			check for correct			
			subscription access			
Sprint-2	Collect Data	USN-3	As an admin I can define	10	High	Surya R
			questions & goals then			
			collect data & provide the			
			dataset in IBM Cognos			
			analytics			
Sprint-2	Prepare &	USN-4	As an admin I can prepare,	10	High	Surya K
	Explore		explore & present the			

			dataset in IBM Cognos			
			analytics			
Sprint-3	Analyze	USN-5	As an admin, I will	10	High	Subash M
			analyze the given			
			dataset (Data pre-			
			processing)			
Sprint-3	Predict	USN-6	As an admin, I will	10	High	Keshav J
			predict the length of			
			stay (Prediction)			
Sprint-4	Visualization	USN-7	As a user, I can select the	7	Medium	Subash M
			visualization type like			
			Report, Dashboard and			
			story (Creating			
			visualization)			
Sprint-4	Dashboard	USN-8	As a user, I can upload the	8	High	Surya K
			datasets to the dashboard			
			and view visualizations			
Sprint-4	Communicate	USN-9	As an admin, I can	5	Low	Surya R
			communicate to the client			
			for user queries and			
			visualize the best			
			dashboards in any platform			
			as a user expected			

PROJECT TRACKER, VELOCITY & BURNDOWN CHARTS

Sprint	Total	Duration	Sprint	Sprint End	Story	Sprint Release
	Story		Start Date	Date	Points	Date (Actual)
	Points			(Planned)	Completed	
					(as on	
					Planned	
					End Date)	
Sprint-1	20	6 Days	24 Oct	29 Oct 2022	20	29 Oct 2022
			2022			
Sprint-2	20	6 Days	31 Oct	05 Nov 2022	20	05 Nov 2022
			2022			
Sprint-3	20	6 Days	07 Nov	12 Nov 2022	20	12 Nov 2022
			2022			
Sprint-4	20	6 Days	14 Nov	19 Nov 2022	20	19 Nov 2022
			2022			

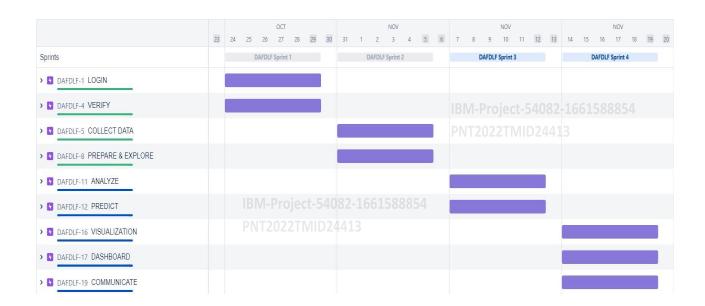
Velocity:

We have a 6-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)

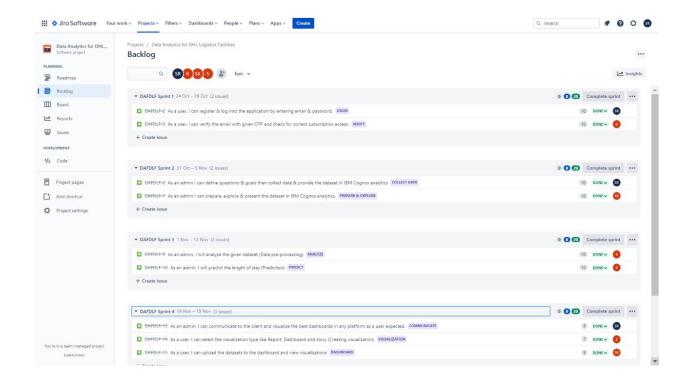
AV = Sprint duration / Velocity = 20/6 = 3.33

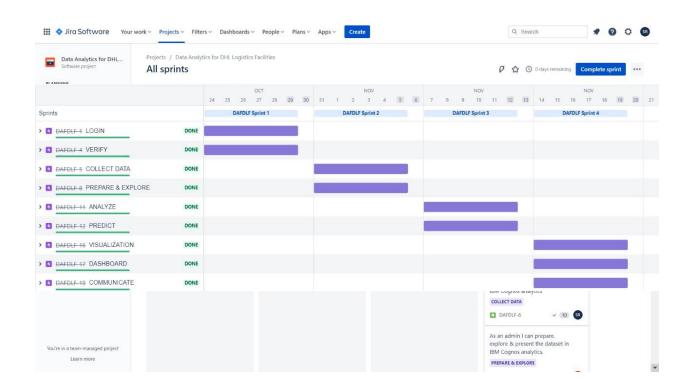
BURNDOWN CHART

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.



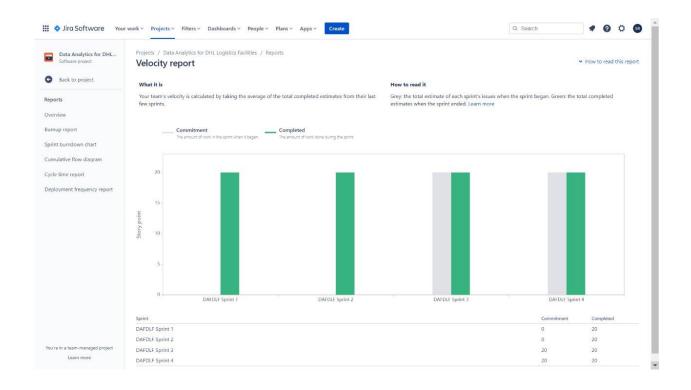
REPORTS FROM JIRA





				C	OCT					NOV							NO
	23	24	25	26	27 28	29	30	31	1 2	3	4	5	6	7	8	9	10
Sprints			D	AFDLF Sp	rint 1				DAFDL	.F Sprint	2				DA	AFDLF S	prir
DAFDLF-1 LOGIN							1										
DAFDLF-4 VERIFY																	
DAFDLF-5 COLLECT DATA															T20		2 T
DAFDLF-8 PREPARE & EXPLORE																	
DAFDLF-11 ANALYZE																	
DAFDLF-12 PREDICT					roje												
DAFDLF-16 VISUALIZATION																	
DAFDLF-17 DASHBOARD																	
DAFDLF-19 COMMUNICATE																	

Velocity chart



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

7.1 Feature-1

Index.Html

The main website page is to create by the use of HTML, CSS, JAVASCRIPT.

The below code is to run a proper website page and for base HTML is used for styling CSS is used and for responsive page Javascript is used.

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta content="width=device-width, initial-scale=1.0" name="viewport">
                                         href="https://cdnjs.cloudflare.com/ajax/libs/font-
 link
                rel="stylesheet"
awesome/5.15.3/css/all.min.css"/>
                                xmlns="http://developer.cognos.com/schemas/xmldata/1/"
 <dataset
xmlns:xs="http://www.w3.org/2001/XMLSchema-instance"> </dataset>
 <title>DHL Logistic- Index</title>
 <meta content="" name="description">
 <meta content="" name="keywords">
 <!-- Favicons -->
 <link href="assets\img\download.jpg" rel="icon">
 <link href="assets\img\download.jpg" rel="icon">
```

```
<!-- Google Fonts -->
 link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,
700i|Jost: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/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 -->
 k href="assets/css/style.css" rel="stylesheet">
</head>
<body>
 <!-- ====== Header ====== -->
 <header id="header" class="fixed-top ">
  <div class="container d-flex align-items-center">
   <h1 class="logo me-auto"><a href="index.html">DHL</a></h1>
   <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="#service">Service</a>
     <a class="nav-link scrollto" href="#skills">Skills</a>
     <a class="nav-link scrollto" href="#team">Team</a>
     class="dropdown"><a href="#"><span>Source</span> <i class="bi bi-chevron-
down"></i></a>
      \langle ul \rangle
       <a href="#">Dashboard</a>
       <a href="#">Story</a>
       <a href="#">Report</a>
      <a class="nav-link scrollto" href="#contact"> Contact</a>
    <i class="bi bi-list mobile-nav-toggle"></i>
   </nav><!-- .navbar -->
  </div>
 </header><!-- End Header -->
 <!-- ===== Hero Section ====== -->
 <section id="hero" class="d-flex align-items-center">
  <div class="container">
   <div class="row">
```

```
<div class="col-lg-6 d-flex flex-column justify-content-center pt-4 pt-lg-0 order-2 order-</pre>
lg-1" data-aos="fade-up" data-aos-delay="200">
      <h1>Better Solutions For Your DHL Logistic Facilities</h1>
      <h2>We are team of talented designers making Data analytics with IBM Cognos</h2>
      <div class="d-flex justify-content-center justify-content-lg-start">
       <a href="https://www.youtube.com/watch?v=jDDaplaOz7Q" class="glightbox btn-
watch-video"><i class="bi bi-play-circle"></i><span>Watch Video</span></a>
      </div>
    </div>
    <div class="col-lg-6 order-1 order-lg-2 hero-img" data-aos="zoom-in" data-aos-</pre>
delay="200">
      <img src="assets/img/hero-img.png" class="img-fluid animated" alt="">
    </div>
   </div>
  </div>
   </div>
  <!-- ====== Team Section ======= -->
  <section id="team" class="team section-bg">
   <div class="container" data-aos="fade-up">
    <div class="section-title">
      <h2>Team</h2>
     Our Team Members details are listed below
    </div>
```

```
<div class="row">
      <div class="col-lg-6">
             class="member d-flex align-items-start" data-aos="zoom-in" data-aos-
delay="100">
               class="pic"><img
                                   src="assets\img\Surya pic.jpg"
                                                                     class="img-fluid"
        <div
alt=""></div>
        <div class="member-info">
         <h4>SURYA R</h4>
         <span>Team Lead</span>
         <div class="social">
          <a href="https://twitter.com/Surya_25_" target="_blank"><i class="ri-twitter-
fill"></i></a>
          <a href="https://github.com/SuryaR-25" target="_blank"><i class="ri-github-
fill"></i></a>
                 href="https://www.instagram.com/_s.u_.r._y.a_/" target="_blank"><i
          <a
class="ri-instagram-fill"></i></a>
          <a href="https://www.linkedin.com/in/surya-r-78ab7a1b6" target="_blank"> <i
class="ri-linkedin-box-fill"></i> </a>
         </div>
        </div>
       </div>
      </div>
   </div> </section><!-- End Team Section -->
```

```
<!---->
<div id="contact">
<div class="container">
   <div class="row">
     <div class="contact-left">
       <h1 class="sub-title">Contact Me</h1>
       <i class="fas fa-paper-plane"></i>sssknalaiyathiran@gmail.com
       <div class="social-icons">
       </div class="btn btn2">
     </div>
     <div class="contact-right">
       <form name="submit-to-google-sheet">
         <input type="text" name="Name" placeholder="Your Name" required>
         <input type="email" name="Email" placeholder="Your Email" required>
         <textarea name="Message" rows="6" placeholder="Your Message"></textarea>
         <succ id="msg"> </succ><br>
         <button type="submit" class="btn btn2">Submit</button>
       </form>
     </div>
   </div>
 </div>
```

```
</main><!-- End #main -->
 <!---->
<script>
                                      scriptURL
const
'https://script.google.com/macros/s/AKfycbzf0rz0NZ2HoN23v2cmgSmC-
MA5kTuV7BZAxbgTzAqE9Unx9gkcQK834z7uDcR1UYXQAg/exec'
const form = document.forms['submit-to-google-sheet']
const msg = document.getElementById("msg")
form.addEventListener('submit', e => {
 e.preventDefault()
  fetch(scriptURL, { method: 'POST', body: new FormData(form)})
   .then(response => {
     msg.innerHTML = "Message sent successfully"
     setTimeout(function(){
       msg.innerHTML = ""
     },5000)
     form.reset()
   })
   .catch(error => console.error('Error!', error.message))
})
</script>
<!-- ===== Footer ===== -->
```

=

```
<footer id="footer">
  <div class="container footer-bottom clearfix">
<span>Created By <a href="https://suryapf.netlify.app">SURYA</a> | <span class="far fa-</pre>
copyright"></span> 2022 All rights reserved.</span>
 </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>
 <!-- Vendor JS Files -->
 <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/waypoints/noframework.waypoints.js"></script>
 <script src="assets/vendor/php-email-form/validate.js"></script>
 <!-- Template Main JS File -->
 <script src="assets/js/main.js"></script>
```

```
</body>
```

7.2 <u>Feature-2</u>

Style.css

```
body {
  font-family: "Open Sans", sans-serif;
  color: #4444444;
}

a {
  color: #47b2e4;
  bottom: 0;
  z-index: 9999;
  overflow: hidden;
  background: #FFCC00;
}
```

```
@keyframes animate-preloader {
0% {
 transform: rotate(0deg);
100% {
 transform: rotate(360deg);
/*-----
# Back to top button
*/
.back-to-top {
position: fixed;
visibility: hidden;
opacity: 0;
right: 15px;
bottom: 15px;
z-index: 996;
```

```
.about .content ul li {
 padding-left: 28px;
 position: relative;
.about .content ul li+li {
 margin-top: 10px;
}
.about .content ul i {
 position: absolute;
 left: 0;
 top: 2px;
 font-size: 20px;
 color: #47b2e4;
 line-height: 1;
.about .content p:last-child {
 margin-bottom: 0;
}
```

```
.about .content .btn-learn-more {
 font-family: "Poppins", sans-serif;
 font-weight: 500;
 font-size: 14px;
 letter-spacing: 1px;
 display: inline-block;
 padding: 12px 32px;
 border-radius: 4px;
 transition: 0.3s;
 line-height: 1;
 color: #FFCC00;
 -webkit-animation-delay: 0.8s;
 animation-delay: 0.8s;
 margin-top: 6px;
 border: 2px solid #FFCC00;
}
 .why-us .content,
 .why-us .accordion-list {
  padding-left: 0;
  padding-right: 0;
```

```
@media (max-width: 992px) {
 .why-us .img {
  min-height: 400px;
 .why-us .content {
 padding-top: 30px;
 .why-us .accordion-list {
  padding-bottom: 30px;
}
@media (max-width: 767px) {
 .pricing .box {
  max-width: 80%;
  margin: 0 auto 30px auto;
 .contact-right{
  margin-top: 68px;
```

```
flex-basis: 90%;
 }
}
@media (max-width: 420px) {
 .pricing .box {
  max-width: 100%;
  margin: 0 auto 30px auto;
 }
 .contact-right{
  margin-top: 68px;
  flex-basis: 90%;
 }
}
@-webkit-keyframes animate-loading {
 0% {
  transform: rotate(0deg);
 }
 100% {
```

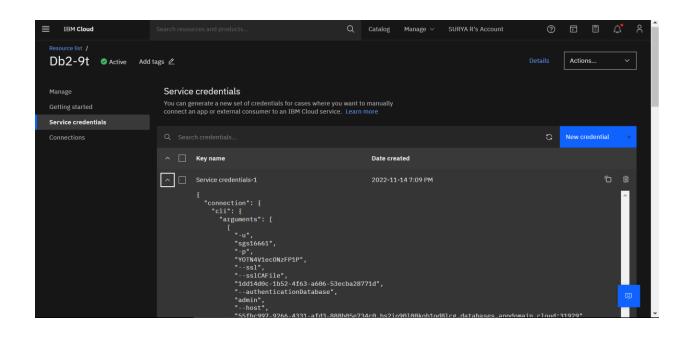
```
transform: rotate(360deg);
 }
}
@keyframes animate-loading {
 0% {
  transform: rotate(0deg);
 }
 100% {
  transform: rotate(360deg);
 }
}
 #footer .credits {
  padding-top: 4px;
}
```

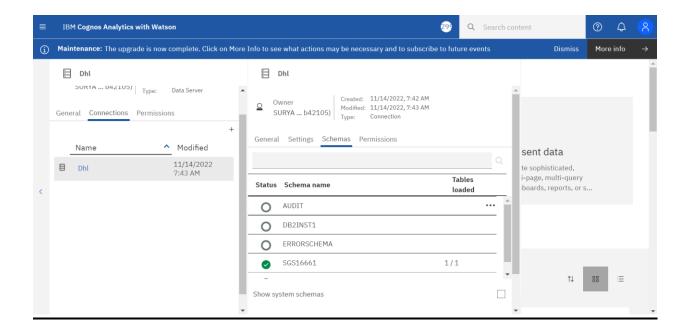
Main.js

```
/**
* Template Name: Arsha - v4.9.1
* Template URL: https://bootstrapmade.com/arsha-free-bootstrap-html-template-corporate/
* Author: BootstrapMade.com
* License: https://bootstrapmade.com/license/
*/
(function() {
 "use strict";
 /**
 * Mobile nav dropdowns activate
  */
 on('click', '.navbar .dropdown > a', function(e) {
  if (select('#navbar').classList.contains('navbar-mobile')) {
  * Skills animation
  */
 let skilsContent = select('.skills-content');
```

```
if (skilsContent) {
  new Waypoint({
   element: skilsContent,
   offset: '80%',
   handler: function(direction) {
    let progress = select('.progress .progress-bar', true);
     progress.forEach((el) => {
      el.style.width = el.getAttribute('aria-valuenow') + '%'
     })
 /**
 * Animation on scroll
  */
   duration: 1000,
   easing: "ease-in-out",
   once: true,
 });
});
})()
```

7.3 Data Schema





8. TESTING

8.1 MODEL PERFORMANCE TESTING

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Screenshot / Values
1.	Dashboard design	20/6
2.	Data Responsiveness	The final output from IBM Cognos With Watson further
		converted into PDF or Story file ,So it can be viewed by all
		devices.
3.	Amount Data to Rendered	0 KB
	(DB2 Metrics)	
4.	Utilization of Data Filters	The Utilization of data Filters like Ascending ,Descending
		Format and so on.
5.	Effective User Stem	15
3.	Effective User Story	

6.	Descriptive Reports	20 /6`

8.2 ACCEPTANCE TESTING

PURPOSE OF DOCUMENT

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

DEFECT ANALYSIS

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

Resolutio	Sever	Severi	Severi	Severi	Subto
n	ity 1	ty 2	ty 3	ty 4	tal
By Design	6	6	4	0	16
Duplicate	0	0	0	0	0

External	8	5	2	0	15
Fixed	12	9	4	7	32
Not Reproduced	1	1	0	0	2
Skipped	0	0	0	0	0
Won't Fix	0	0	0	0	0
Totals	27	21	10	7	6
					5

TEST CASE ANALYSIS

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

Section	Total	Not	Fa	Pas
	Cases	Tested	il	S
Print Engine	8	0	0	8
Client Application	51	0	0	51
Security	4	0	0	4
Outsource Shipping	3	0	0	3
Exception Reporting	8	0	0	8
Final Report Output	5	0	0	5
Version Control	2	0	0	2

9. RESULTS:

9.1 PERFORMANCE METRICS

Shipping Time:

Spot potential issues in your order fulfilment process

Order Accuracy:

Monitor the degree of incidents

Picking Accuracy:

How many orders are picked without errors?

Delivery Time:

Track your average delivery time in detail

Pick & Pack Cycle Time:

Track the time it takes to pick and pack your orders

Equipment Utilization Rate:

<u>Transportation Costs</u> :
Analyze all costs from the order placement to delivery
Warehousing Costs:
Optimize the expenses of your warehouse
Pick & Pack Costs:
Monitor all costs related to your pick & pack process
Use of Packing Material:
Optimize your materials usage
Number of Shipments:
Understand how many orders are shipped

Is your equipment enough for your workforce?

Inventory Accuracy:

Avoid problems because of inaccurate inventory

Inventory Turnover:

Track how many times your entire inventory is sold

<u>Inventory to Sales Ratio</u>:

Identify a potential overstock

KPIs for Each Stage of Logistics

Logistics KPIs



10. ADVANTAGES AND DISADVANTAGES

PROS OF DHL LOGISTICS FACILITIES

Understanding the aspects of the logistics sector and the advantages that it can bring can be extremely insightful to your organization. Logistics has a series of advantages, which include the following:

- Enhanced Distribution Network When having a good logistics system, with different logistics operators, you are able to optimize the times along with the distribution chain. There are a variety of companies out there that are available to take care of your logistics needs at a national and international level.
- Costs Reduction Due to automated facilities and other globalized distribution systems, transport cost and handling costs are able to be reduced. A more efficient logistics chain will improve both final customer satisfaction and the service.
- Delivery Fulfillment Delivery fulfillment is extremely important to modern-day customers. In an era of instant-gratification, consumers are looking for their product the second they push the "buy" button. Through

adequate logistical processes, delivery times have been greatly reduced as compared to a few years ago.

While there are many advantageous associated with the logistics sector, there are also a variety of disadvantages as well.

CONS OF DHL LOGISTICS FACILITIES

In the logistics sector, there are different aspects to consider that have a great influence. This can be globalization, technology, consumer evolution, legal aspects, or government policies. These aspects directly influence the logistics sector and may hinder its ability to thrive. Here are a few of the disadvantages pertaining to the logistics sector:

- **Multinational** One of the most consistent disadvantages pertains to the sector being covered with substantially larger companies. This makes it very difficult for medium and small companies to have access to this, due to the costs associated with it.
- Cost of Transport A greater distance to travel will only make the cost greater as well. This will make it difficult to get a competitive price.
 Transportation is by far the greatest cost of the logistics sector.

• Legality - Barriers pertaining to entry and exit can also be a hurdle to overcome, considering that each country and state can have its own say on logistical practices. This is definitely a major concern for some areas within the United States, especially on some issues such as marijuana legalization.

11. CONCLUSION

Logistics systems and transportation consist of interdependent relationships that logistics management requires transportation to perform its day-to-day activities and meanwhile, a good logistics system can efficiently improve transportation development and traffic environment. Since transportation contribute the highest cost among the related elements in logistics systems, the improvement of transport efficiency can change the overall performance of a logistics system. Transportation plays an important role in logistics system and its activities appear in various sections of logistics processes. Without the linking of transportation, a powerful logistics strategy cannot bring its capacity into full play.

The review of logistics system in a broad sense might help to integrate the advantages from different application cases to overcome their current demerits. Review of transport systems provides a clear notion on transport applications in logistics activities. Development of logistics will be still vigorous in the following decades and the logistics concepts might be applied in more fields.

12. FUTURE SCOPE

Data Analytics for DHL Logistics Facilities is all about making the right product available to the right customer at the right time and at right cost.

With average purchasing power increasing, consumerism is on the rise in India. Indians are buying more and more with each passing day and this rise is here to stay. Given there is a trend of an increasing demand, companies are flooding Indian markets with their offerings, competing with each other in terms of enhanced products, better and easy shopping experience etc.

This trend can be seen across companies. There are more brands of, say toothpaste, to choose from. There are different toothpastes for different needs, different taste etc. Similarly there are more options of cars, televisions, clothes, juices, biscuits etc available to consumer than what were available, say a decade back. All these options need to be made available to the consumers (right from procuring raw materials to making it available on shelf).

Hence I believe, as long as there are companies competing against each other to satisfy consumers, there is a good scope for SCM in India to ensure these

products reaches from raw material stage to consumer at the right time and the at right cost.

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">
 link
                    rel="stylesheet"
                                                 href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.3/css/all.min.css"/>
 <dataset
                                         xmlns="http://developer.cognos.com/schemas/xmldata/1/"
xmlns:xs="http://www.w3.org/2001/XMLSchema-instance"> </dataset>
 <title>DHL Logistic- Index</title>
 <meta content="" name="description">
 <meta content="" name="keywords">
 <!-- Favicons -->
 <link href="assets\img\download.jpg" rel="icon">
 <link href="assets\img\download.jpg" rel="icon">
 <!-- Google Fonts -->
 link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Jost:
```

```
300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300,300i,400,400i,500,500i,600,600i,700,700
i" rel="stylesheet">
<body>
 <!-- ===== Header ===== -->
 <header id="header" class="fixed-top ">
  <div class="container d-flex align-items-center">
   <h1 class="logo me-auto"><a href="index.html">DHL</a></h1>
   <nav id="navbar" class="navbar">
    ul>
     <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="#service">Service</a>
     <a class="nav-link scrollto" href="#skills">Skills</a>
     <a class="nav-link scrollto" href="#team">Team</a>
     class="dropdown"><a href="#"><span>Source</span> <i class="bi bi-chevron-
down"></i></a>
      \langle ul \rangle
       <a href="#">Dashboard</a>
       <a href="#">Story</a>
       <a href="#">Report</a>
      <a class="nav-link scrollto" href="#contact"> Contact</a>
```

```
<i class="bi bi-list mobile-nav-toggle"></i>
   </nav><!-- .navbar -->
  </div>
 </header><!-- End Header -->
 <!-- ===== Hero Section ====== -->
 <section id="hero" class="d-flex align-items-center">
  <div class="container">
   <div class="row">
    <div class="col-lg-6 d-flex flex-column justify-content-center pt-4 pt-lg-0 order-2 order-lg-1"</pre>
data-aos="fade-up" data-aos-delay="200">
     <h1>Better Solutions For Your DHL Logistic Facilities</h1>
     <h2>We are team of talented designers making Data analytics with IBM Cognos</h2>
     <div class="d-flex justify-content-center justify-content-lg-start">
       <a href="https://www.youtube.com/watch?v=jDDaplaOz7Q" class="glightbox btn-watch-
video"><i class="bi bi-play-circle"></i><span>Watch Video</span></a>
     </div>
    </div>
    <div class="col-lg-6 order-1 order-lg-2 hero-img" data-aos="zoom-in" data-aos-delay="200">
     <img src="assets/img/hero-img.png" class="img-fluid animated" alt="">
    </div>
   </div>
  </div>
```

DHL is an international Umbrella brand and trademark for the courier, package delivery, and express mail service which is a division of the German logistics firm Deutsche Post. The company group delivers over 1.6 billion parcels per year. The company DHL itself was founded in San Francisco, USA, in 1969 and expanded its service throughout the world by the late 1970s.

```
</div>
<div class="col-lg-6 pt-4 pt-lg-0">
```

In 1979, under the name of DHL Air Cargo, the company entered the Hawaiian Islands Adrian Dalsey and Larry Hillblom personally oversaw the daily operations until its eventual bankruptcy closed

the doors in 1983. At its peak, DHL Air Cargo employed just over 100 workers, management, and pilots.

```
<a href="https://www.dhl.com/in-en/home.html?locale=true" target=" blank" class="btn-
  <section id="skills" class="skills">
   <div class="container" data-aos="fade-up">
    <div class="row">
     <div class="col-lg-6 d-flex align-items-center" data-aos="fade-right" data-aos-delay="100">
      <img src="assets/img/skills.png" class="img-fluid" alt="">
     </div>
     <div class="col-lg-6 pt-4 pt-lg-0 content" data-aos="fade-left" data-aos-delay="100">
      <h3>Skills</h3>
      our skills contributed for this project
      <div class="skills-content">
        <div class="progress">
         <span class="skill">Ibm Cognos <i class="val">100%</i></span>
         <div class="progress-bar-wrap">
          <div class="progress-bar" role="progressbar" aria-valuenow="100" aria-valuemin="0"</pre>
aria-valuemax="100"></div>
         </div>
        </div>
        <div class="progress">
```

```
<span class="skill">HTML <i class="val">95%</i></span>
         <div class="progress-bar-wrap">
          <div class="progress-bar" role="progressbar" aria-valuenow="95" aria-valuemin="0" aria-</pre>
valuemax="100"></div>
         </div>
        </div>
        <div class="progress">
         <span class="skill">CSS <i class="val">90%</i></span>
         <div class="progress-bar-wrap">
          <div class="progress-bar" role="progressbar" aria-valuenow="90" aria-valuemin="0" aria-</pre>
valuemax="100"></div>
         </div>
        </div>
        <div class="progress">
         <span class="skill">JavaScript <i class="val">75%</i></span>
         <div class="progress-bar-wrap">
          <div class="progress-bar" role="progressbar" aria-valuenow="75" aria-valuemin="0" aria-</pre>
valuemax="100"></div>
         </div>
        </div>
        <div class="progress">
         <span class="skill">Google collab <i class="val">70%</i></span>
         <div class="progress-bar-wrap">
```

```
<div class="progress">
         <span class="skill">Kaggle Api <i class="val">10%</i></span>
         <div class="progress-bar-wrap">
          <div class="progress-bar" role="progressbar" aria-valuenow="10" aria-valuemin="0" aria-</pre>
valuemax="100"></div>
        msg.innerHTML = ""
      },5000)
     form.reset()
   })
   .catch(error => console.error('Error!', error.message))
 })
</script>
 <!-- ===== Footer ====== -->
 <footer id="footer">
  <div class="container footer-bottom clearfix">
   <span>Created By <a href="https://suryapf.netlify.app">SURYA</a> | <span class="far fa-</pre>
copyright"></span> 2022 All rights reserved.</span>
 </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/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/waypoints/noframework.waypoints.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>
```

Style.css

```
body {
 font-family: "Open Sans", sans-serif;
 color: #444444;
}
a {
 color: #47b2e4;
 text-decoration: none;
}
a:hover {
 color: #73c5eb;
 text-decoration: none;
}
```

```
# Preloader
#preloader {
 position: fixed;
 top: 0;
 left: 0;
 right: 0;
 bottom: 0;
 z-index: 9999;
 overflow: hidden;
 background: #FFCC00;
}
#preloader:before {
 content: "";
 position: fixed;
 top: calc(50% - 30px);
```

```
left: calc(50% - 30px);
 border: 6px solid #FFCC00;
 border-top-color: rgb(6, 6, 6);
 border-bottom-color: rgb(0, 0, 0);
 border-radius: 50%;
 width: 60px;
height: 60px;
 -webkit-animation: animate-preloader 1s linear infinite;
 animation: animate-preloader 1s linear infinite;
}
@-webkit-keyframes animate-preloader {
0% {
  transform: rotate(0deg);
 }
 100% {
  transform: rotate(360deg);
```

```
}
@keyframes animate-preloader {
0% {
  transform: rotate(0deg);
 }
 100% {
  transform: rotate(360deg);
 }
}
width: 180px;
border-radius: 50%;
}
.team .member .pic img {
transition: ease-in-out 0.3s;
```

```
}
.team .member:hover {
transform: translateY(-10px);
}
height: 32px;
background: #eff2f8;
}
.team .member .social a i {
color: #FFCC00;
font-size: 16px;
margin: 0 2px;
}
.team .member .social a:hover {
background: #dbaf02;
```

```
}
.team .member .social a:hover i {
 color: #fff;
}
.team .member .social a+a {
 margin-left: 8px;
}
/*-----*/
. contact\text{-left} \{
 margin-top: 68px;
 flex-basis: 35%
}
.contact-left p{
 margin-top: 30px;
```

```
color: var(--text-black-700);
}
.contact-left p i{
 color: orange;
 margin-right: 15px;
 font-size: 25px;
}
.social-icons{
 margin-top: 10px;
 font-size: 50px;
}
.social-icons a{
 text-decoration: none;
 font-size: 25px;
 margin-right: 15px;
 color: var(--text-black-700);
 display: inline-block;
 transition: transform 0.5s;
```

```
}
/*----*/
@media (max-width: 992px) {
 .pricing .box {
  max-width: 60%;
  margin: 0 auto 30px auto;
 }
 .contact-right{
  margin-top: 68px;
  flex-basis: 60%;
}
@media (max-width: 767px) {
 .pricing .box {
```

```
max-width: 80%;
  margin: 0 auto 30px auto;
 }
#footer .footer-top h4 {
 font-size: 16px;
 font-weight: bold;
 color: #f0c20c;
 position: relative;
 padding-bottom: 12px;
}
#footer .footer-top .footer-links {
 margin-bottom: 30px;
}
#footer .footer-top .footer-links ul {
 list-style: none;
```

```
padding: 0;
 margin: 0;
}
#footer .footer-top .footer-links ul i {
 padding-right: 2px;
 color: #f0c20c;
 font-size: 18px;
 line-height: 1;
}
#footer .footer-top .footer-links ul li {
 padding: 10px 0;
 display: flex;
 align-items: center;
}
#footer .footer-top .footer-links ul li:first-child {
```

```
padding-top: 0;
#footer .footer-bottom {
 padding-top: 18px;
 padding-bottom: 18px;
 color: #fff;
}
#footer .copyright {
 float: left;
}
#footer .credits {
 float: right;
 font-size: 13px;
}
#footer .credits a {
```

```
transition: 0.3s;
}
@media (max-width: 768px) {
 #footer .footer-bottom {
  padding-top: 20px;
  padding-bottom: 20px;
 }
 #footer .copyright,
 #footer .credits {
  text-align: center;
  float: none;
 #footer .credits {
  padding-top: 4px;
```

Main.js

```
/**
* Template Name: Arsha - v4.9.1
* Template URL: https://bootstrapmade.com/arsha-free-bootstrap-html-template-corporate/
* Author: BootstrapMade.com
* License: https://bootstrapmade.com/license/
*/
(function() {
 "use strict";
 /**
 * Easy selector helper function
  */
 const select = (el, all = false) => {
  el = el.trim()
```

```
if (all) {
  return
/**
   navbarToggle.classList.toggle('bi-x')
  }
  scrollto(this.hash)
 }
}, true)
/**
* Scroll with ofset on page load with hash links in the url
*/
window.addEventListener('load',\,() => \{
 if (window.location.hash) {
  if (select(window.location.hash)) {
   scrollto(window.location.hash)
  }
```

```
}
});
/**
* Preloader
*/
let preloader = select('#preloader');
if (preloader) {
 window.addEventListener('load',\,() => \{
  preloader.remove()
 });
}
/**
* Initiate glightbox
 */
const glightbox = GLightbox({
 selector: '.glightbox'
```

```
});
/**
 * Skills animation
 */
let skilsContent = select('.skills-content');
if (skilsContent) {
 new Waypoint({
  element: skilsContent,
  offset: '80%',
  handler: function(direction) {
   let progress = select('.progress .progress-bar', true);
   progress.forEach((el) => {
     el.style.width = el.getAttribute('aria-valuenow') + '%'
    });
  }
 })
```

```
/**
* Porfolio isotope and filter
*/
window.addEventListener('load', () => {
 let portfolioContainer = select('.portfolio-container');
 if (portfolioContainer) {
  let portfolioIsotope = new Isotope(portfolioContainer, {
   itemSelector: '.portfolio-item'
  });
  let portfolioFilters = select('#portfolio-flters li', true);
  on('click', '#portfolio-flters li', function(e) {
   e.preventDefault();
   portfolioFilters.forEach(function(el) {
     el.classList.remove('filter-active');
    });
```

```
this.classList.add('filter-active');
   portfolioIsotope.arrange({
     filter: this.getAttribute('data-filter')
    });
   portfolioIsotope.on('arrangeComplete', function() {
     AOS.refresh()
   });
  }, true);
});
/**
* Initiate portfolio lightbox
*/
const\ portfolioLightbox = GLightbox(\{
 selector: '.portfolio-lightbox'
```

}

```
});
 /**
 * Portfolio details slider
  speed: 400,
  loop: true,
  autoplay: {
   delay: 5000,
   disableOnInteraction: false
  },
  pagination: {
   el: '.swiper-pagination',
   easing: "ease-in-out",
   once: true,
 });
});
```

})()

GitHub & Project Demo Link https://github.com/IBM-EPBL/IBM-Project-54082-1661588854