

Collaborative Supply Chain Platform for Dollar Tree

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Agenda

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- ☐ Problem Solution
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- ☐ Context Level Diagram
- ☐ Level-0 DFD
- ☐ Sequence Diagram
- ☐ E-R Diagram
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- ☐ Conclusion

Problem Statement

Challenges Faced by Dollar Tree:

- ❑ Poor communication between Dollar Tree, suppliers, and logistics providers
- ❑ Lack of transparency and real-time information
- ❑ Operational inefficiencies leading to:
 - Stockouts
 - Frustrated customers
 - Financial losses

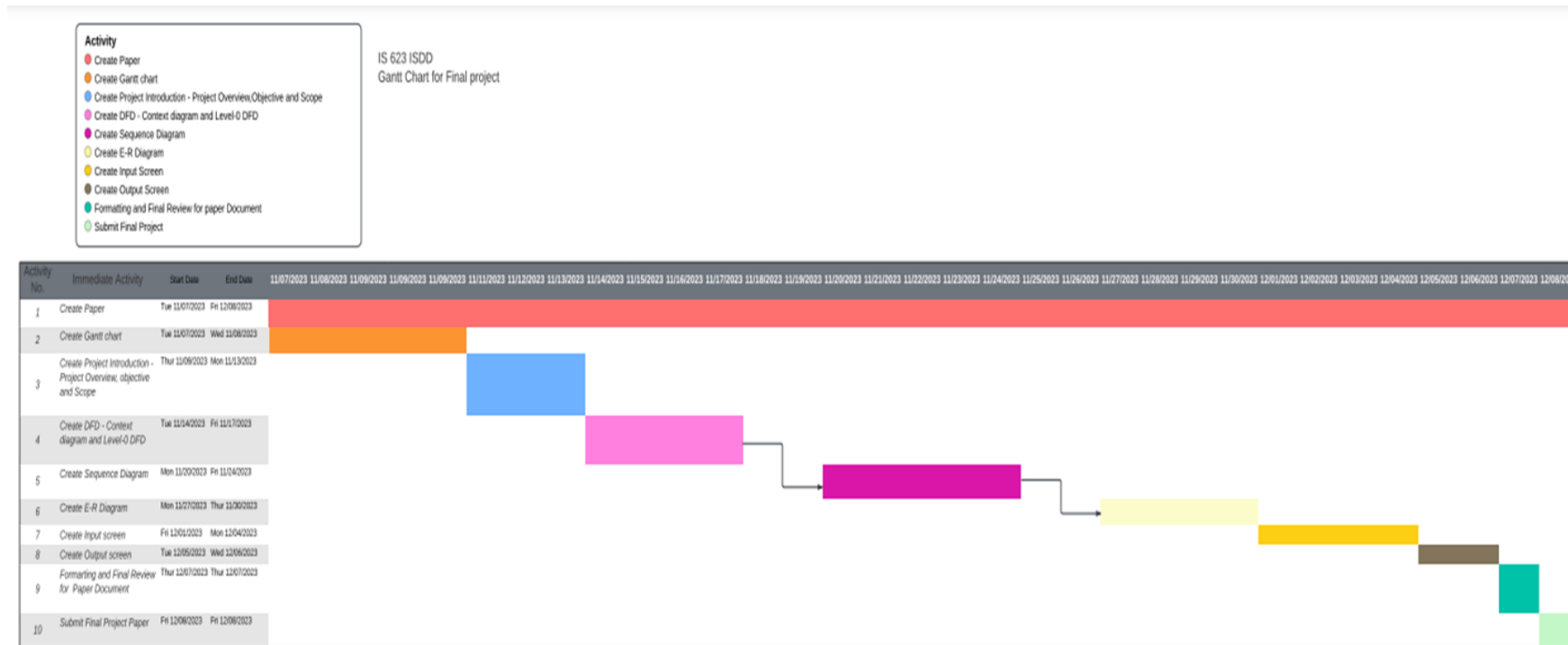
Problem Solution

Collaborative Supply Chain Platform

Project overview:

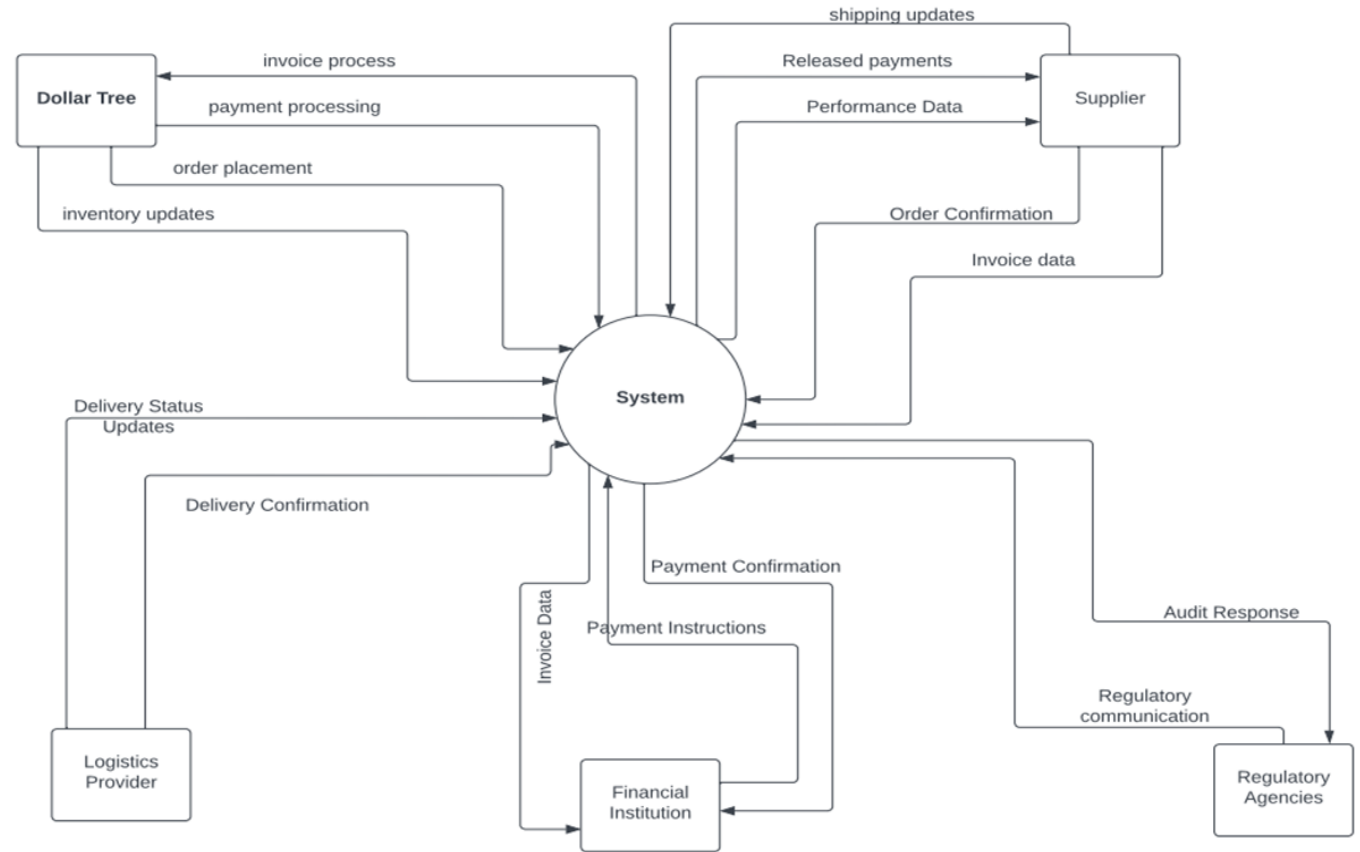
- ❑ A comprehensive platform to improve and streamline Dollar Tree's supply chain processes
- ❑ Leverages advanced technologies and collaboration tools
- ❑ Covers the entire supply chain, from sourcing products to distribution across stores

Gantt Chart



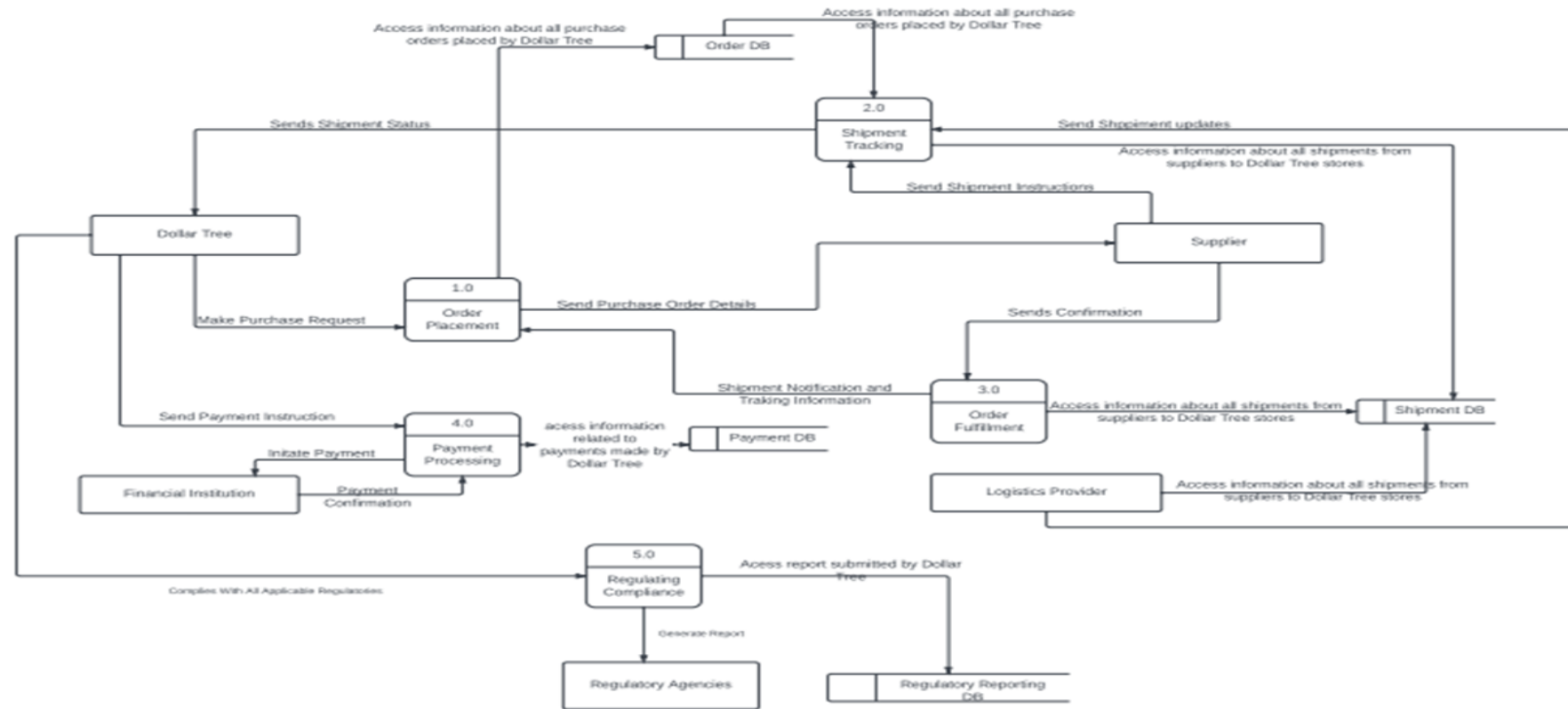
Context Level Diagram

Context level diagrams shows the interactions between supply chain platform and entities with which the proposed system is designed to interface.



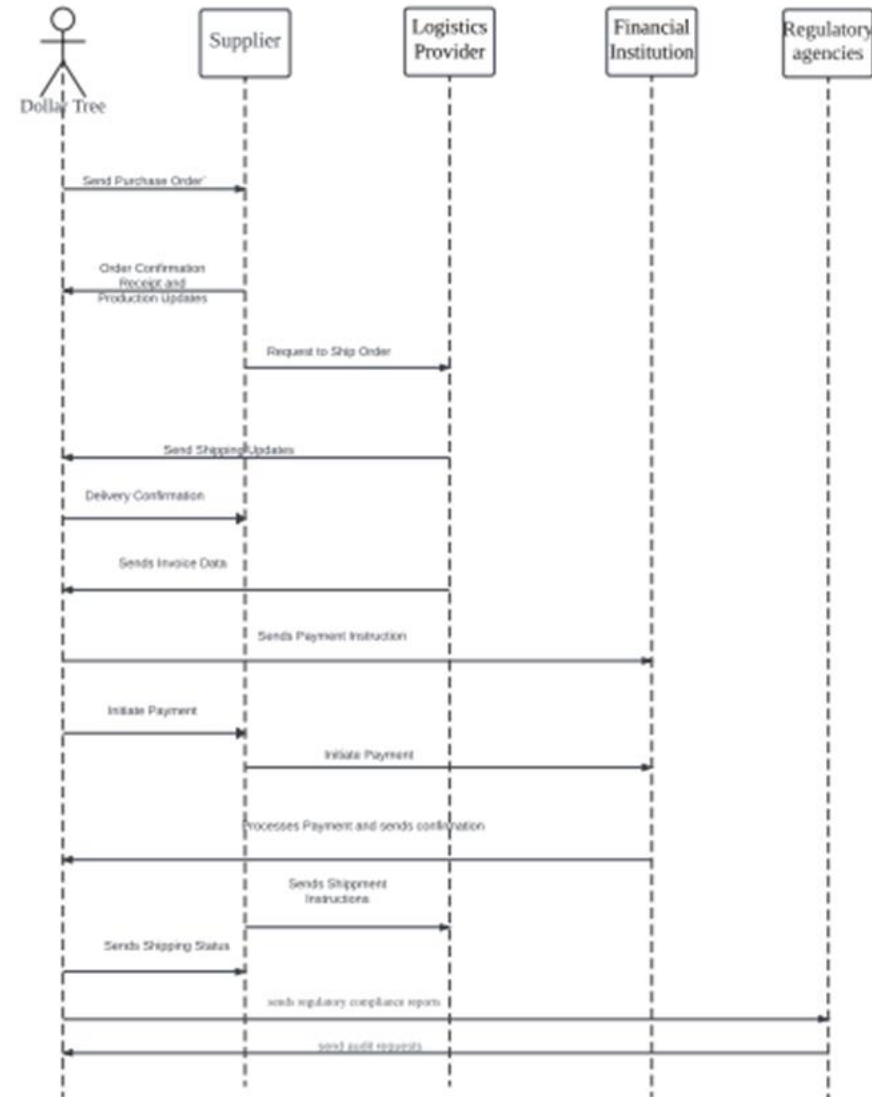
Level 0 Data Flow Diagram

Level 0 DFD is the highest-level DFD, which provides an overview of the entire system. It shows the major processes, data flows, and data stores in the proposed system, without providing any details about the internal workings of these processes.



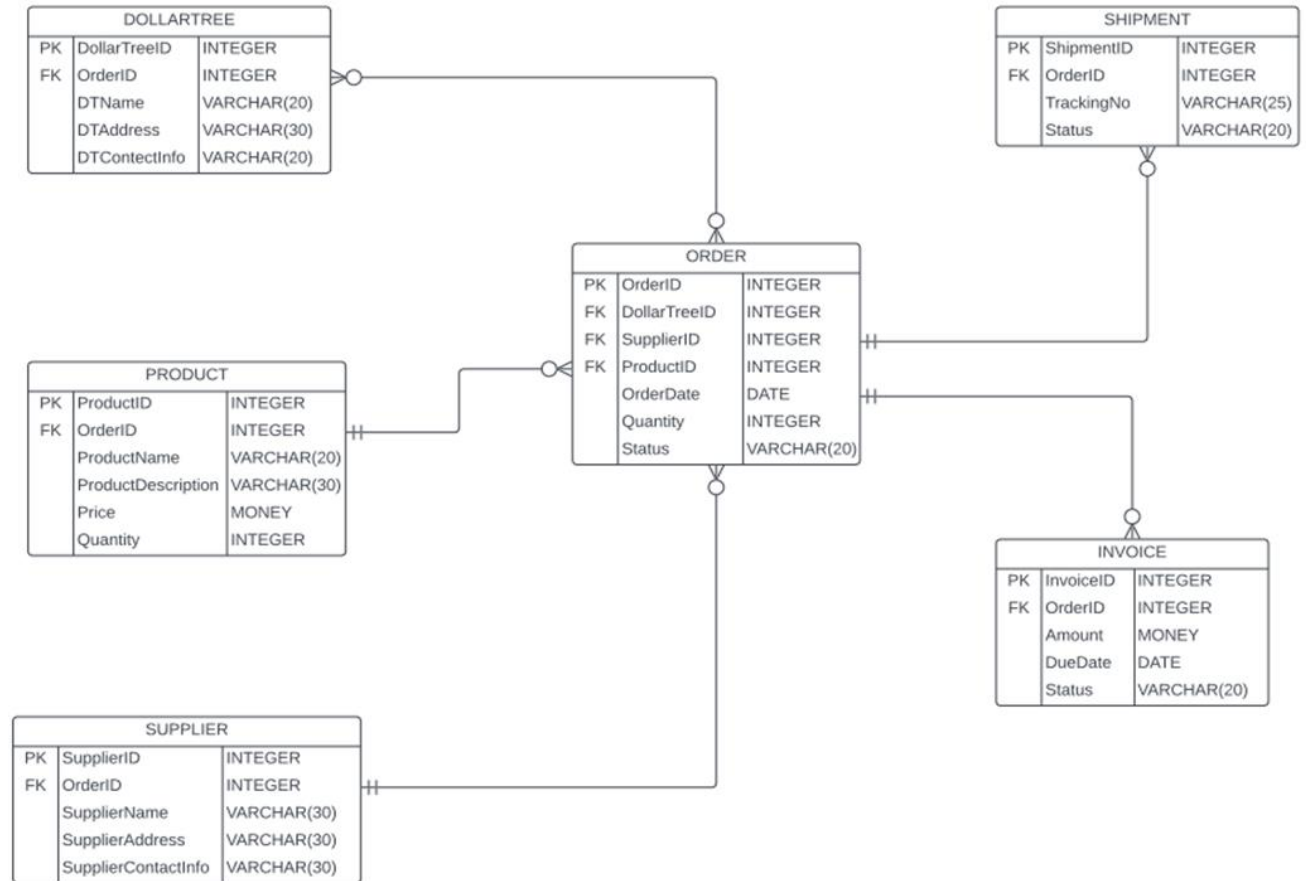
Sequence Diagram

The sequence diagram is depicting interaction between objects in a sequential order i.e. the order in which these interactions take place in the proposed system.



ER Diagram

ER Diagram represents the relationship among the entities present in the database for the proposed system.



Input Screen

Dollar Tree SCM Platform

Friday Dec 8. 2023 10:30 AM

Supplier List	Product List	Delivery Status	Order Summary
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Dollar Tree
3000 JFK BLVD, Ste 101,
Jersey City
NJ 07306
Phone : (201) 356 2200

Add New Supplier

Track Shipment Status

Product Inventory Chart

Sales Opportunity Chart

Place order

Submit Order

View Order Details

Enter Purchase Order Details:

Product ID :

Product Name :

Description

Unit Price :

Quantity :

Sub Total :

Next

Reset

Output Screen

Dollar Tree SCM Platform

Friday Dec 8. 2023 10:30 AM

Supplier List	Product List	Delivery Status	Order Summary
---------------	--------------	-----------------	---------------

Dollar Tree
3000 JFK BLVD, Ste 101,
Jersey City
NJ 07306
Phone : (201) 356 2200

Add New Supplier

Track Shippment Status

Product Inventory Chart

Sales Opportunity Chart

Place order	Submit Order	View Order Details
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Purchase Order Details:

Product ID :

Product Name :

Description

Unit Price :

Quantity :

Sub Total :

Supplier ID :

Order ID

Order Date

Delivery Date

Purhase Order No:

Delivery Address

Conclusion

- ❑ The collaborative supply chain platform designed for Dollar Tree is an initiative that can substantially enhance the company's supply chain operations.
- ❑ By addressing key challenges and leveraging advanced technologies, the platform can significantly benefit the company, improving efficiency, customer satisfaction, and overall competitive advantage.



