

User Requirements Doc: Supply Chain Optimisation

User Story

As the Head of Operations at a vehicle manufacturing company, I am responsible for ensuring the seamless flow of parts and components into our production facilities. To achieve this, I need to optimize our inbound logistics processes. This optimization is crucial to support Just-In-Time (JIT) manufacturing, which minimizes inventory holding costs and reduces production delays.

Key Objectives

- 1. Ensure Timely Delivery of Parts and Components:**
 - I need to establish reliable delivery schedules with our suppliers to ensure that parts arrive just in time for production. This requires accurate demand forecasting and robust supplier relationships.
- 2. Reduce Transportation Costs:**
 - By analyzing different transportation modes and routes, I aim to identify the most cost-effective options without compromising delivery speed. This involves negotiating better rates with logistics providers and exploring bulk shipping options.
- 3. Maintain Optimal Inventory Levels:**
 - Optimal inventory levels are essential to prevent both stockouts and excess inventory. I need to implement advanced inventory management systems to track stock levels in real-time and automate reordering processes.
- 4. Improve Supplier Performance:**
 - Establishing performance metrics for our suppliers is key to ensuring consistent quality and timely deliveries. I need to conduct regular performance reviews and collaborate with suppliers to address any issues.
- 5. Streamline Delivery Schedules:**
 - Coordinating with suppliers and logistics providers to create efficient delivery schedules will help reduce lead times and avoid production delays. This includes setting up a real-time tracking system for shipments.
- 6. Achieve Cost-Effective Transportation Solutions:**
 - By leveraging data analytics, I can identify opportunities to reduce transportation costs. This includes choosing the right transportation mode for different parts, optimizing delivery routes, and consolidating shipments where possible.

7. Enhance Overall Operational Efficiency:

- The ultimate goal is to enhance operational efficiency across the supply chain. This involves continuous process improvements, adopting best practices in logistics, and utilizing technology to automate and streamline operations.

Expected Outcome

- Improved on-time delivery rate
- Reduced transportation and inventory holding costs
- Enhanced supplier performance and collaboration
- Increased operational efficiency and productivity
- Higher customer satisfaction due to reliable and timely production

By achieving these objectives, I aim to ensure that our manufacturing process runs smoothly, meets production targets, and maintains a high level of customer satisfaction.