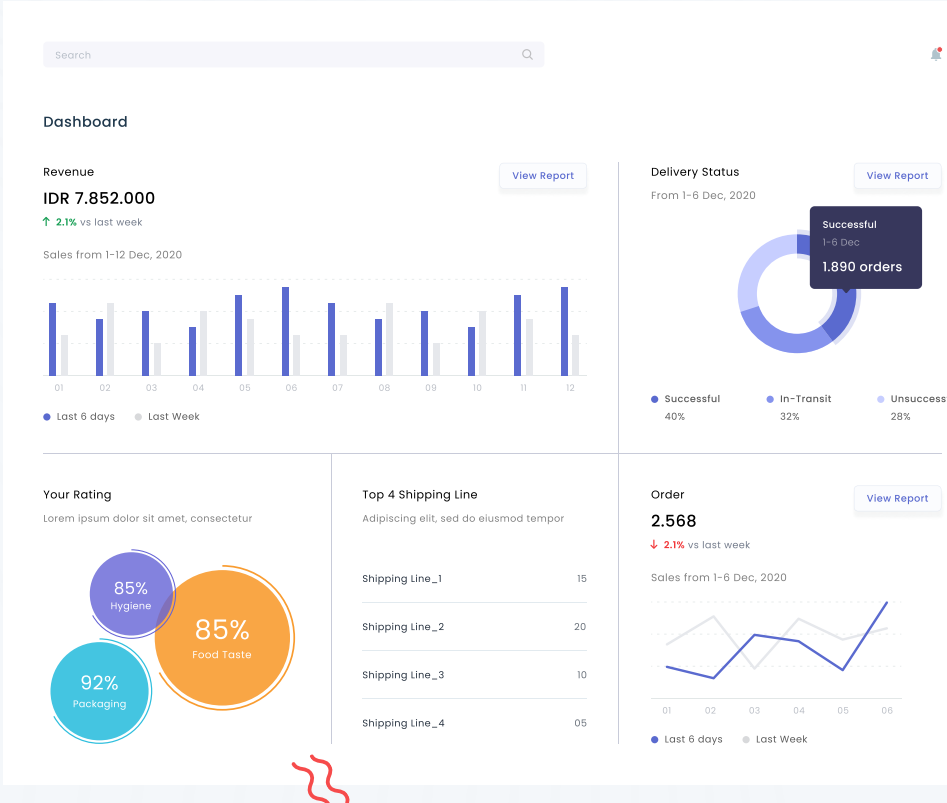
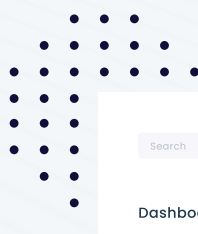


Revolutionizing Logistics Booking Management

The challenges faced by our client in logistics booking management were multifaceted, including the absence of an online quotation system, limited booking options, complex and time-consuming processes, interactions with multiple entities, manual interventions, and a deficit of trust in the supply chain. These hurdles impeded efficient decision-making, accessibility, and overall logistics management.



Company Overview

The NES Mission is to address complexities of global economic relationships in international trade and ensure that the exporting and importing communities enjoy the benefits of a connected supply chain on the NES digital platform thereby setting progressive standards in International trade.

Objectives



Develop an integrated digital platform for seamless booking, verification, & communication.



Provide end-to-end visibility into the logistics process to enhance transparency and reduce errors.



Implement automated workflows to minimize manual interventions and potential errors.



Create user-friendly online portals for container booking and management.



Implement an online quoting system for quick and accurate shipping cost estimates.



Establish trust in the supply chain through decentralized trust applications leveraging blockchain technology.

Technological Implementation



PostgreSQL

PostgreSQL served as the relational database management system (RDBMS) for storing and managing application data. Its robust features, including ACID compliance and support for complex queries, ensured efficient data storage and retrieval, crucial for a system handling logistics operations.



.NET Core

Utilized for backend development, .NET Core provided a robust and scalable foundation for building the integrated digital platform. Its cross-platform capabilities ensured compatibility across different operating systems, facilitating seamless deployment and management.



React

React was chosen for frontend development due to its component-based architecture and flexibility in creating interactive user interfaces. Its efficient rendering mechanism enabled the creation of responsive and intuitive online portals for container booking and management.



Hyperledger

Hyperledger technology was leveraged to implement the decentralized trust application, establishing trust among all parties involved in the logistics chain. Its permissioned blockchain framework ensured secure and transparent transactions, enhancing trust and integrity within the supply chain ecosystem.

Solutions Offered

- Integrated Digital Platform:** A centralized platform was developed for seamless booking, verification, and communication, leveraging .NET Core for backend functionalities.
- End-to-End Visibility:** React was utilized to implement a user-friendly interface providing visibility into the logistics process, reducing errors, and accelerating shipping timelines.
- Automated Workflows:** .NET Core facilitated the implementation of automated workflows, minimizing manual interventions and potential errors in logistics management.
- Online Container Booking Portal:** React-powered online portals were developed for container booking and management, ensuring a user-friendly experience for customers.
- Digitized Quotation System:** .NET Core and PostgreSQL were utilized to implement an online quoting system for quick and accurate shipping cost estimates, enhancing decision-making efficiency.
- Decentralized Trust Application:** Hyperledger technology was employed to establish trust among all parties involved in the logistics chain, ensuring transparency and integrity in transactions.

Results



Consolidated Quotations: Quotation gathering from multiple shipping lines was streamlined for quick decision-making, facilitated by the integrated digital platform powered by .NET Core and PostgreSQL.

Live Tracking: Shipment tracking with real-time updates using booking ID or BOL number was enabled, enhancing visibility and transparency in the logistics process, driven by React-powered interfaces.



Saving Time and Money: Significant time and cost savings were achieved through streamlined processes facilitated by .NET Core, React, PostgreSQL, and Hyperledger technologies.

Key Takeaways

Through the strategic utilization of .NET Core, React, PostgreSQL, and Hyperledger technologies, our client has successfully revolutionized logistics booking management in the travel industry. The integrated digital platform, offering end-to-end visibility, automated workflows, user-friendly portals, digitized quotation system, and decentralized trust application, has streamlined operations, enhanced transparency, and established trust within the supply chain ecosystem, paving the way for efficient and seamless logistics management.