

Optimization of the inventory proces in the distributed model using the nAxiom system

Polskie ePłatności S.A. is part of the Nets group - a leader in the payment industry. The company provides service of transactions made with payment instruments and other services with the use of POS terminals.



70,000 indexes
(equipment and service parts)



80 locations
(central warehouse and distributed warehouses of service technicians)

As the business grew, the terminal inventory process became more demanding and complex for the customer. The main challenge were unconnected inventories and erroneous readings. Regularity, accuracy and the possibility to control the conducted inventory works have become extremely important for the proper course of the entire process.

5x

Shorter time needed to conduct the inventory.



Inventory data in a unified system.



Control of the inventory process and elimination of reading errors in real time.

60%

Lower cost of implementation compared to the expansion of the ERP system.

Challenges

The ERP system used by the Customer had a limited functional scope. This prevented the inventory work to be carried out with the required pace and accuracy. The lack of availability of the system on mobile devices, the lack of a consistent and accessible point for data collection and the impossibility of monitoring the progress of the inventories on an ongoing basis meant that the process took several days and was fraught with the risk of errors. The process involved many employees, additionally, during the inventory work the receiving and issuing the equipment from the warehouse was stopped.

Business objective

- ◆ Shortening the inventory process to a maximum of 3 days.
- ◆ Automation of readings and minimization of errors.
- ◆ Controlling the status of conducted inventory works.
- ◆ Reducing the cost of expanding the ERP systems.

” *The architecture of the nAxiom platform allowed for quick preparation of functionalities enabling full handling of the generated inventory sheets and efficient integration with the Customer's ERP system. The use of portable barcode readers as part of the implemented application, with full online support for their use significantly reduced the time needed to conduct the inventory, as was expected by the Customer.*



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Recommendations

After recognizing the Customer's needs we have proposed a low-code technology solution. The chosen nAxiom platform enabled a quick creation of a dedicated application and its integration with the Customer's ERP system. Thanks to the low-code technology, apart from the created application for managing the inventory process, the Customer can build on the nAxiom platform any number of business applications that support production, warehouse, logistics and other processes supporting automation in the organization.

Implementation

As part of the project, our partner OPTeam S.A. developed and implemented an application for mobile data collectors based on the nAxiom platform in low-code technology, which accelerated the inventory works and enabled their ongoing control. The use of mobile barcode readers allowed for immediate reading of serial numbers, elimination of errors and analysis of results in real time, which significantly improved the inventory process and improved its time and quality. The developed solution allowed for integration with the Customer's ERP system, which was a response to his basic business needs.



Platform

The nAxiom low-code platform is a tool for easy, visual development of business applications that enable tasks optimization. The platform enables quick adaptation to changing market requirements and allows to increase competitiveness. You can create and manage multiple applications supporting your business needs from one place. A clear and functional interface makes working on the nAxiom platform easy and pleasant.



The way to develop the application

When developing the application, low-code technology and an Agile approach were combined. The development team cooperated with the Customer on an ongoing basis and gradually implemented new functionalities. The main purpose of using the Agile methodology was to respond to the Customer's changing needs during the development of the application, which significantly improved and accelerated the work and, as a result, contributed to achieving business success.

Benefits

- ◆ The application developed using the nAxiom platform enabled the automation of the inventory process without the need to replace or modernize the ERP system.
- ◆ The implemented solution allowed the Customer to immediately identify errors, allowed for their prompt correction and improved control of processes related to stock levels.
- ◆ Reducing the number of potential errors and the number of people involved in the inventory works resulted in an **80%** reduction in process costs and a **10-fold** reduction in surpluses and shortages.

The application created using the nAxiom platform allows the Customer to streamline inventory work and significantly reduce the time needed to conduct it.

