

ZNIFA
REDEFINING DIGITAL TRANSFORMATION

CASE STUDY 12

STREAMLINING INVENTORY & SHIPMENT

Seamless migration to the latest mobile devices and technologies optimizes inventory management and shipment operations for a musculoskeletal company.

CORE TECHNOLOGIES

Sprint Boot 2, Angular JS, jQuery, Ajax, Webservices, Oracle

INTRODUCTION

The client, a musculoskeletal solution company in North America, sought to upgrade their mobile devices and technology platform to enhance inventory and shipment processes. They aimed to ensure smooth operations and mitigate issues related to device support and phase-out.

RESOURCES ENGAGED

A dedicated team of three skilled professionals collaborated tirelessly to bring Znifa's Mobile App to life. Drawing upon their expertise in app development, design, and content creation, they meticulously crafted a robust and visually appealing application that aligns with the vision of enhancing tourism in East New Britain.

PRODUCT SYNOPSIS

Znifa's solution involved developing a new application using AngularJS framework to migrate the existing Inventory and Shipping Device. The application integrated with KeyCloak for authentication and leveraged Angular JS for screen development, reducing development effort and easing maintenance. Additionally, Microsoft-based Webservices were migrated to Java, and token-based authentication was implemented for Webservice calls. The solution also included common search and printer configuration functionalities, as well as Android and iOS apps using PhoneGap for both Zebra and iOS devices. RFID scanner integration and iOS mapping were incorporated as well.

KEY CHALLENGES

- Migrating from the existing Inventory and Shipping Devices to new mobile devices and technologies.
- Integrating with KeyCloak for authentication and ensuring data security.
- Transitioning Microsoft-based web services to Java for improved compatibility and performance.
- Splitting webservices from the current EAR and creating a lightweight EAR for optimized functionality.
- Configuring RFID scanner integration and iOS mapping for seamless operations on Zebra and iOS devices.

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SOLUTION IMPLEMENTATION

Znifa developed a new application using AngularJS framework, integrating with KeyCloak for authentication. The screens were built using Angular JS, reducing development effort and enabling easier maintenance. Microsoft-based webservices were migrated to Java, and token-based authentication was implemented for secure webservice calls. Additionally, common search and printer configuration functionalities were implemented. Android and iOS apps were developed using PhoneGap, and RFID scanner integration and iOS mapping were configured for Zebra and iOS devices respectively.

RESULTS AND DATA

Seamless migration to new mobile devices improved inventory management and shipment operations.

- Enhanced user experience and streamlined processes resulted in a 20% reduction in errors.
- Improved compatibility and performance with Java-based webservices increased system efficiency by 30%.
- The adoption of lightweight EAR improved application performance and reduced response time by 25%.
- Successful integration of RFID scanners and iOS mapping facilitated accurate tracking and streamlined operations.

Overall, the solution resulted in a 15% increase in productivity and operational efficiency.

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