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**Business Domain**

Industrial, Manufacturing

**Project Type**

Web Application

# Streamlining Laboratory Data Management with Advanced Integration Solutions

## Client

Our Client is a digital-based laboratory that uses different equipment with multiple integrations and a large amount of data that should be processed and analyzed.

## Project

Developing software that allows designing, analyzing, and reporting of experiments. It provides the ability to control Client's laboratory equipment and enables chemists and engineers to gain an in-depth understanding of the collected reaction data.

## Objective

To have all data from the laboratory equipment in one application presented in the tailored view.

To have the ability to customize the analytical approaches and change the dashboards and integrated equipment in the easiest way.

## Team Reinforcement

Intetics provided essential resources and expertise to the Client by leveraging its extensive internal IT resources and vast talent pool.

## Challenge

The Client is an industry leader specializing in manufacturing precision instrumentation and services. The company delivers a comprehensive range of solutions, including laboratory weighing, industrial measurement, and product inspection. With a rich history, the Client has established itself as a global authority in the field, providing cutting-edge technology to industries worldwide.

- Hard orchestrated laboratory equipment.
- Fractioned data.
- Hard customized reports and dashboards.

The Client couldn't overcome these obstacles on its own due to the complexity of diverse laboratory equipment, fragmented data, and the need for highly customized reports and dashboards. They also lacked experienced teams with the necessary expertise in software development and data integration to address these challenges effectively.

## Quick Facts

- ✓ 13 years of continuous cooperation
- ✓ 10 projects for laboratory processes automation are implemented for the Client
- ✓ Developed solution enabled laboratories to focus more on customer service and quality rather than technical details

## Technologies

.NET 7 / Blazor / Web API / Orleans MongoDB / Azure DevOps / xUnit / SignalR / TypeScript / Jest

## Solution

### ★ 01

The comprehensive approach consolidated diverse laboratory data into a single, user-friendly application, enhancing operational efficiency and data accuracy.

### ★ 02

Intetics provided a transformative solution for digital-based laboratories, resulting in significant global impact for their customers.

### ★ 03

The dedicated team's expertise and continuous support ensured long-term success and adaptability to evolving needs.

### ★ 04

Customizable dashboards allowed for better decision-making and streamlined reporting processes.