



## ***Major Steel Fabrication Firm Accelerates Re-Building of Mission-Critical Legacy Software by Leveraging Tiempo Agile and Scrum Expertise***

### **About the Client**

The client is one of the largest and most experienced structural steel fabrication and erection firms in North America, specializing in design, engineering, modeling, detailing and project management.

### **The Challenge: Rebuilding Application from Scratch Exceeds Internal Resource Capacity**

The client relies on a custom Job Management System (JMS) for administering building construction projects. The software helps manage contracts, costs, client contacts, email communications, historical data, designs, and timelines. As the client decided to add more features and customize existing ones to better meet end-user requirements, the legacy application proved challenging to adapt. As a result, the client chose to re-develop the application from scratch. But the project would take longer than expected—given the availability of resources and other projects internal developers were already assigned to.

### **The Development Environment**

- » Architecture: Web-API Based, Web App
- » Languages: C#/.NET for API, Type-Script (Angular) for Web App (Front End)
- » Tools: Visual Studio 2017 Professional, SQL Server Management Studio 17, Git, Source Tree
- » Technologies: git, C#/.NET, Angular 5, SQL Server, HTML, CSS3
- » Environment: Development, Internal QA, Client QA, UAT, and Production
- » Concepts: Agile, Scrum, Scrumban

## The Solution: The Creation of High-Performance Team and a Scrumban Process That Adapts the Client Needs and Ensures Success

To create version 2.0 of the JMS software, the client turned to Tiempo Development. Tiempo brought in senior software engineers, a tester engineer and a Scrum master to collaborate with the client and advise on using the Scrumban Process for software development. After understanding the JMS business rules, Tiempo demonstrated the benefits of Agile principles—incorporating ceremonies, roles, rules and artifacts that enable the team for continuous inspection, adaptation and improvement of the process.

Tiempo also advised on architecture strategies such as the branching and merging process the team is using. The Tiempo team is always searching for ways improve process and bring new solutions to the table. Currently pending to be reviewed and implemented are three more strategies -CI/CD, front end architecture improvements and back end architecture improvements.

## The Results: A highly engaged and collaborative team and soon to be released JMS 2.0 version

Tiempo showed flexibility in using the client's management tools and merging them with Tiempo tools to create the current Scrumban process. The team used Kanban Zone, the management tool the client's internal team was accustomed to. This merger of tools resulted in improved indicators such as velocity, reliability and quality and helped to provide guidance and ensure continuous improvement.

After concluding a ramp up of seven, two-week iterations, the work has established a stable, predictable velocity. The team was able to provide an accurate project completion date for JMS 2.0. The soon to be released version is critical for the client's operations team due to its critical functionality.

## The Customer's View

"Our Tiempo team shows great attention to detail and established a very good understanding of our business requirements. Our team has also demonstrated all the skills needed to accomplish our ambitious goals."

## About Tiempo Development

Tiempo is widely recognized as one of the leading software engineering companies in the US. Using a combination of nearshore engineering resources, high-performance teams and relentless focus on client outcomes, Tiempo designs, builds and deploys software that makes lives better. Tiempo is headquartered in Tempe, Arizona, with four world-class software development facilities in Mexico. Tiempo has been recognized annually by Inc. Magazine as one of the Fastest-Growing Private Companies in America.

By teaming up with Tiempo, we significantly reduced the initially projected timeline to deploy JMS 2.0.

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