

# Building a Successful Partnership in the Logistics Industry

MAXIMA CONSULTING

#### The Client

Our client is a third-party logistics (3PL) company headquartered in Massachusetts. Their business was supported by their in-house Warehouse management system (WMS) which is a .NET based system developed in the 2000s.

The proprietary WMS system was being pushed beyond its limits, despite it being well structured and highly configurable.

#### System details:

- Responsible for fulfillment and returns management to e-commerce retailers
- Operates 7+ warehouses in the United States with more to come
- Is supported by their in-house .Net based Warehouse management system (WMS) developed in the 2000s
- Experienced rapid growth and increased client demands



#### **Problem Statement**

- 1. The business has experienced exponential growth within the last years, and the current systems and architecture were not be capable of supporting the rapid growth without refactoring or redesign.
  - Systems have a very tightly coupled design and architecture
- 2. Data Replication and Redundancy
  - The DB has a lot of replicated and redundant data, partly because the systems are so tightly coupled, and as such, logic and functions are replicated across different systems and parts of system.
- 3. No QA growth strategy
  - Regression was not being done when changes were made to systems
- 4. Current Integration methodology is inefficient
  - There is not actual handshake when requests are sent, keeping clients in the dark about orders until results are generated
- 5. Poor Support and troubleshooting tools
  - Current systems have inadequate and application logs, quite an uphill task to tie current logs to events



# Where Maxima Consulting Helps

Maxima Consulting is supporting the Client with our OnShore/OffShore delivery model utilizing **Boston** and **Poland** for both our development and testing efforts.

#### This entails:

- Involvement in BAU activities such as, support, investigations, etc
- Standardization and introduction of best practices in their QA process through our QA seasoned professionals
- Rebuild, redesign and refactoring of some applications to modernize and make them more scalable through our Engineers and Architect
- End-to-End support across the whole SDLC

#### **Project Technologies**

- .NET and C# using ASP.NET MVC or WEB API, high-volume SOAP and REST APIs, XML files
- Azure, AWS S3
- Github, Jira, Zephyr Scale, Zendesk
- Splunk introduced by Maxima Consulting
- .NET Core Framework



## **Team Development**

- 1 year ago Software Engineering team consisting of 3 QA Specialists, 1 Architect, 1 Scrum Master and 4 Engineers
- Today there are 2 teams
  - Maxima 8 people 3 Engineers, 1 Architect, 4 QA Specialists
  - o Client 9 people 1 QA Specialist, 1 Engineering Manager, 1 Architect, 1 Principal engineer, 5 Engineers



# **Quality Assurance - Today**

- Created a test plan together with developers
- There are a lot of corner cases created by the QA team
- Improved communication between QA and development team
- Created a test plan strategy document which tools to use, how to create test cases, responsibilities etc.
- Added additional regression testing to the process,
- We split the work between the team, so it's transparent who does what
- Standardize the processes in the QA team, for example QA Sign Off
- Introduction of daily QA meetings



## **Development - Today**

- People are using one of our developers work as a benchmark if we can complete a ticket in 3 days, it shouldn't take others more than that
- Introduced training sessions to bring all employees on the same level
- Introduced best practices inside the company, which the rest tries to follow
- New standards that begin to set the pace of the project
- Better synergy between the whole Engineering team and Quality Assurance
- Created new functionalities and the engineering team helped the QA team make sure that all services are running smoothly
- Created a tool to improve tests XML File Generator in 1 second they can create thousands of orders
- Created Confluence pages to facilitate knowledge transfer
- Introducing new standards and improving the quality of work in all aspects



# **Design & Architecture - What Changed**

- Streamlined SDLC process
- Introduction of design authority
  - Design of new features was in siloses
  - Now there is an all inclusive environment enabling other teams to give input
- Standardization of logs and log in process, we are implementing an enterprise solutions to gain more insight from applications and business processes
- Design and implementation of a Middleware for client outbound events, such that event notifications/result are sent in real-time to clients via API calls
- Implementation of Splunk To provide insights to application and business performance, thus, aid organisation make decisions off real time data analysis



# **Design & Architecture - What Changed**

- We created a repository to understand all processes and systems so new employees can be onboarded faster
- Introduction of weekly knowledge sharing sessions. Every member of the Engineering and QA teams are tasked with the responsibility to pick a topic (internal app/process related, general engineering or soft skills), prepare a presentation and deliver the presentation at their allotted date/time. The created document and recording of session becomes a building block for IT's knowledge base.
- The IT team digs deep into existing processes, systems etc, an interactive way to build a knowledge base
- Creating win-win situations team members work on their soft skills (like presentations) and the business knowledge is democratized
- Built out a global team of high-quality experts





### **Our profile**

- → 29+ years of experience delivering solutions for leading global enterprises.
- → Global location strategy USA, Canada, UK, Ireland, Poland, India, Netherlands, Germany, Romania.
- → We provide a full range of business, development, and support services globally.
- → State-of-the-art Development Centers in the USA, Europe, and India.

- → Experienced and dedicated Senior Management Team.
- → High Employee Retention.
- → Access to 1000's senior resources located in the USA, Europe, and India.
- $\rightarrow$  ISO 9001, 27001, and 14001 certified. CMMI Level 3 Certified.











## **Contact:**



#### Phone number

+1 (844) 484 6294



#### E-mail

hello@maximaconsulting.com

