

TYBRIN

Delivers Enhanced Application Functionality and Reliability with Spring

TYBRIN



SPRINGSOURCE RESULTS

Spring delivers the following business results to TYBRIN:

- Accelerated Project Delivery
- More Productive Team
- Reduced Project Risk
- Focus on Customer Objectives
- Enhanced Applications
- Minimized Developer Training
- Competitive Edge

TESTIMONIAL

"I built the application in one weekend leveraging components built on the Spring framework – saving six months of work. I would never have been able to pull that off without Spring."

"Spring allows us to focus on the customer needs – the business element – and not the underlying infrastructure."

"Spring gives us a competitive advantage when it comes to bidding."

TYBRIN

TYBRIN develops customized applications for government departments such as the United States Air Force. TYBRIN clients depend on the company to continuously design and deploy multiple applications rapidly, effectively and on budget.

Challenge

Rather than writing custom code and building components from scratch for common aspects of every application, the TYBRIN development team searched various frameworks before deciding upon Spring, the de facto standard platform to build, run and manage enterprise Java applications. When a new major government project was contracted to develop an application that would reconcile an agency's spending against government financial systems, TYBRIN faced a major challenge.

"Just before I joined TYBRIN, the project team was struggling because they didn't know where to start," says Guy Hunter, Technical Lead, G2M Project, TYBRIN. "They had six months to get the project done, but they had little knowledge about Spring or other industry available tools. That's when I introduced them to Spring."

"Without Spring, we would have had to build everything from scratch," Hunter continued. "If we planned to build the application from scratch, there was no way we would get it done. It was impossible. To write everything would have taken so long. There was no way we could have met the deadline, and I would say it could not have been accomplished at all. It would have been a disaster."

"We would have had to write the whole web MVC infrastructure," Hunter adds, "and there would have been so many issues with it. I don't think we could have overcome those obstacles." Hunter adds that the focus needed to be on the customer's business logic, not how to build an MVC infrastructure.

Solution

When TYBRIN hired Hunter, they asked him how they could complete the project. Hunter said one word: Spring. Now, TYBRIN developers use Spring, as well as other offerings supported by SpringSource, the company behind Spring, including Apache Tomcat, the world's most widely used application server; Groovy, a dynamic language for the Java Virtual Machine offering a flexible easy-to-learn Java-like syntax; and Grails, a Web application framework that leverages the Groovy language to make development as simple as possible. "Spring solved our problems, and we were able to meet the goal," Hunter confirms.

Benefits

SPRING DELIVERS THE FOLLOWING BUSINESS RESULTS TO TYBRIN:

Accelerated Project Delivery

Spring enables TYBRIN to complete projects and deliver them to customers more quickly, because it streamlines workload. For example, Hunter explains that another team outside his area was having trouble with a project, and Spring provided a fast resolution.

"The other team was coding everything by hand in Java," he explains. "It would have taken them months beyond their deadline. Meanwhile, I built the application in one weekend leveraging components built on Spring – saving six months of work. I would never have been able to pull that off without Spring."

More Productive Team

Tight government budgets mean that TYBRIN must complete projects in the most economical way. One approach is to minimize the number of developers per team. Workload is growing, however, so teams use Spring to be more productive. "It is only because we have the Spring foundation, and all the infrastructure is taken care of, that we can maintain our projects with only 2-3 developers," Hunter notes.

Reduced Project Risk

Using Spring reduces developer involvement on many of the components. Hunter sees this as a key advantage because when developers build components or try to solve problems, they introduce new risk to the project. Hunter says he can assume all Spring components are proven and will work perfectly, which reduces project risk.

Focus on Customer Objectives

"Spring allows us to focus on the customer needs – the business element – and not the underlying infrastructure," Hunter explains. "My customer doesn't care if I write an MVC framework. It doesn't benefit them, and they will never see the framework. They are only going to see the end result and that is what I am able to concentrate on with Spring."

Enhanced Applications

TYBRIN's end product is much more stable and reliable, because Spring allows the development team extra time to ensure application quality. In addition, Hunter says the TYBRIN team adds additional features that the clients never even knew they could ask for. For example, Hunter explains how the previous version of a client application required complicated and inconvenient navigation through multiple menus, which the team fixed by adding dynamic drill-down capabilities in the new release.

Minimized Developer Training and Oversight

Spring is much easier to learn, which means TYBRIN developers ramp up faster, require less training and oversight. "The less hand holding I have to do with my developers, the more I can focus on the customer," says Hunter.

Competitive Edge

"Spring gives us a competitive advantage when it comes to bidding," Hunter explains. "If we have a track record that proves we can deliver on time, with better applications and less problems, that always improves our chance for winning a contract, and Spring gives us that capability."

Springsource Value Adds

Support for Apache Tomcat

TYBRIN utilizes Apache Tomcat in conjunction with Spring, and Hunter says that being able to turn to SpringSource for support on both is an advantage.

Groovy and Grails

Hunter utilizes Groovy and Grails because both solutions are simple enough for the less experienced developers to understand, do not require customization, and enable a high level business discussion with the customer. "With Groovy, I can talk on a high level with the customer, which I couldn't do before," Hunter concludes. "Groovy is domain driven, from the perspective of how the job is performed. Now I can explain the object we are building, in a language business people can understand."

About SpringSource

SpringSource, a division of VMware, Inc., (NYSE: VMW) and the leader in Java application infrastructure and management, provides a complete suite of software products that accelerate the entire build, run, manage enterprise Java application lifecycle.

SpringSource employs the open source leaders who created and drive innovation for Spring, the de facto standard programming model for enterprise Java applications. SpringSource also employs the Java and Web thought leaders within the Apache Tomcat, Apache HTTP Server, Hyperic, Groovy and Grails open source communities. Nearly half of the Global 2000, including many world's leading retail, financial services, manufacturing, healthcare, technology and public sector clients are SpringSource customers. For more information visit: www.springsource.com.



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