Agile Specification and JavaEE Industrialization

OBEO

The Need

The goal of the ministry is to control its application assets from end to end and reduce ownership costs, in particular by favoring Open Source software.

The specifications, consisting of 400 requirements, aim to industrialize its design and execution chain for software applications created both in-house and externally. This project also falls within the scope of the larger goal of rationalizing the information system.

The cornerstone of the project is the creation of a software development factory in keeping with the principles of responsiveness to change derived from agile methods.
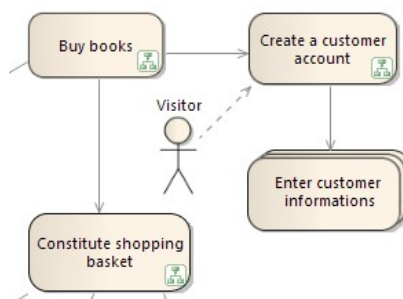
The Solution

Obeo partnered with Bull in order to provide the ministry with a comprehensive solution combining a design studio and a forge.

Obeo supported the ministry in creating a workbench composed of:
• A modeling tool intended for the operational staff to specify user interactions
• Several modeling tools to design screens, services, entities, and tables
• JavaEE code generators
• Integration with a collaborative work system

These tools are based on Obeo Designer, which is used as a collaborative platform deployed across the ministry.

The Benefits

The viability of the solution had been demonstrated right from the first project. "We acquired know-how on using the SAFR@N method and tools that today allows us to make a commitment to the Defense Infrastructure Department (SID), to lead times, and to the quality of the COSI product (Conduct of Defense Infrastructure Operations), representing 6,000 staff-days and 600,000 lines of code, of which 80% have been generated," says Frédéric Brun, COSI Project Manager.

The major part of the work required to adapt the studio has been redistributed as Open Source software within the Obeo Network community. Other partners have thus already been able to contribute with enhancements that have benefited the ministry.

Project execution sequence
- *Set up studio over the course of 1 year*
- *Simultaneously started pilot project*
- *Gained progressive autonomy on generators*

"The architectures of our applications can now be reproduced using templates and code generators,"
Erwan Garel, Project Manager of CALI (Architecture Catalog)

"We are very satisfied with the teams' commitment and very high level of expert knowledge,"
Lieutenant-Colonel Denis Fest, responsible for SAFR@N at the CPSIAT