



**Zontisa Smart Technology**  
Artifacto Case Study

# “Zontisa Creates, Develops and Produces technology to make your life easier”

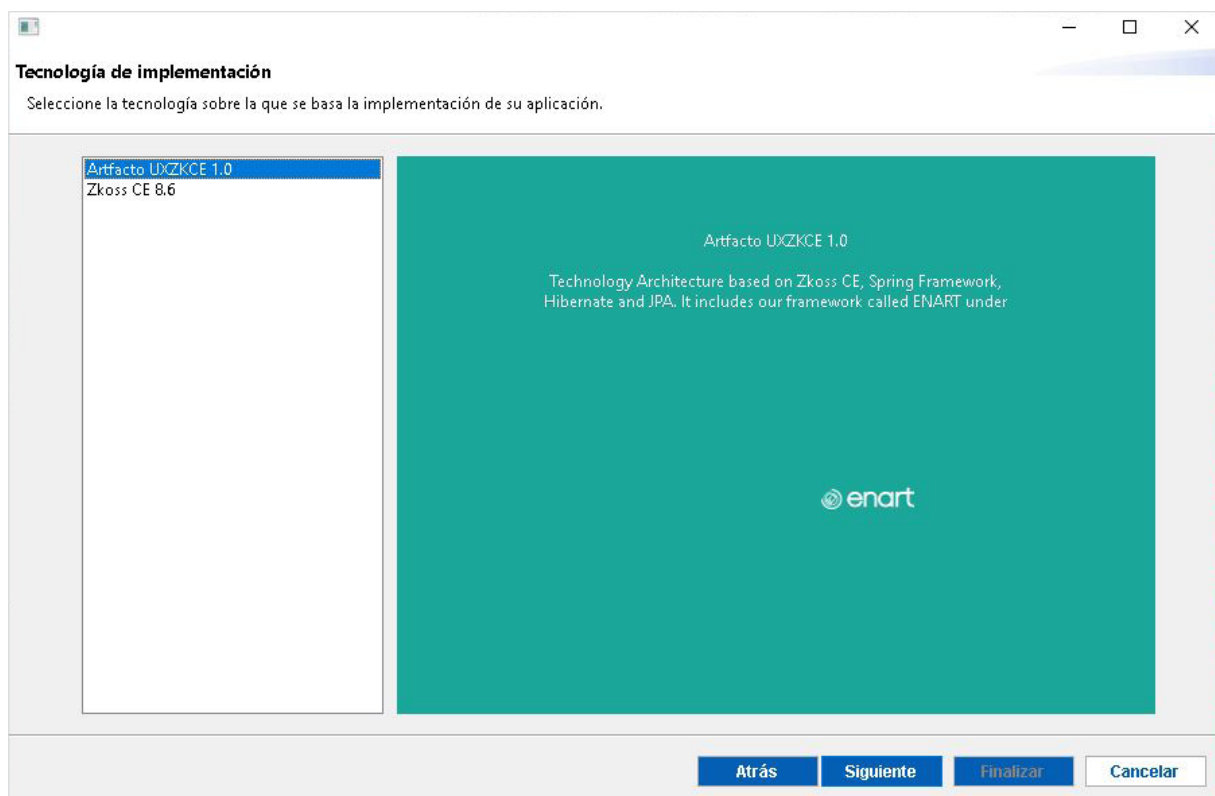
## About Zontisa

At Zontisa we are focus on research, innovation and creation of exclusive and intelligent software of high technological value. We are specialized in creating engineering platforms and solutions, which allow the integration of different operating systems and architectures in companies. Established in 2006 and headquartered in Madrid and Barcelona, its foundation took place based on a very powerful technological product: Artifacto.

# ZK x Artfacto

Artfacto is the first open low-code platform, which is completely adapted to the architecture and technology of the client, without the need to change or adapt it.

Artfacto is a platform used for automatic software generation. It was created in 2003 and has been used as a tool for the generation of software in an automated, fast, and effective way for numerous companies within various business sectors.



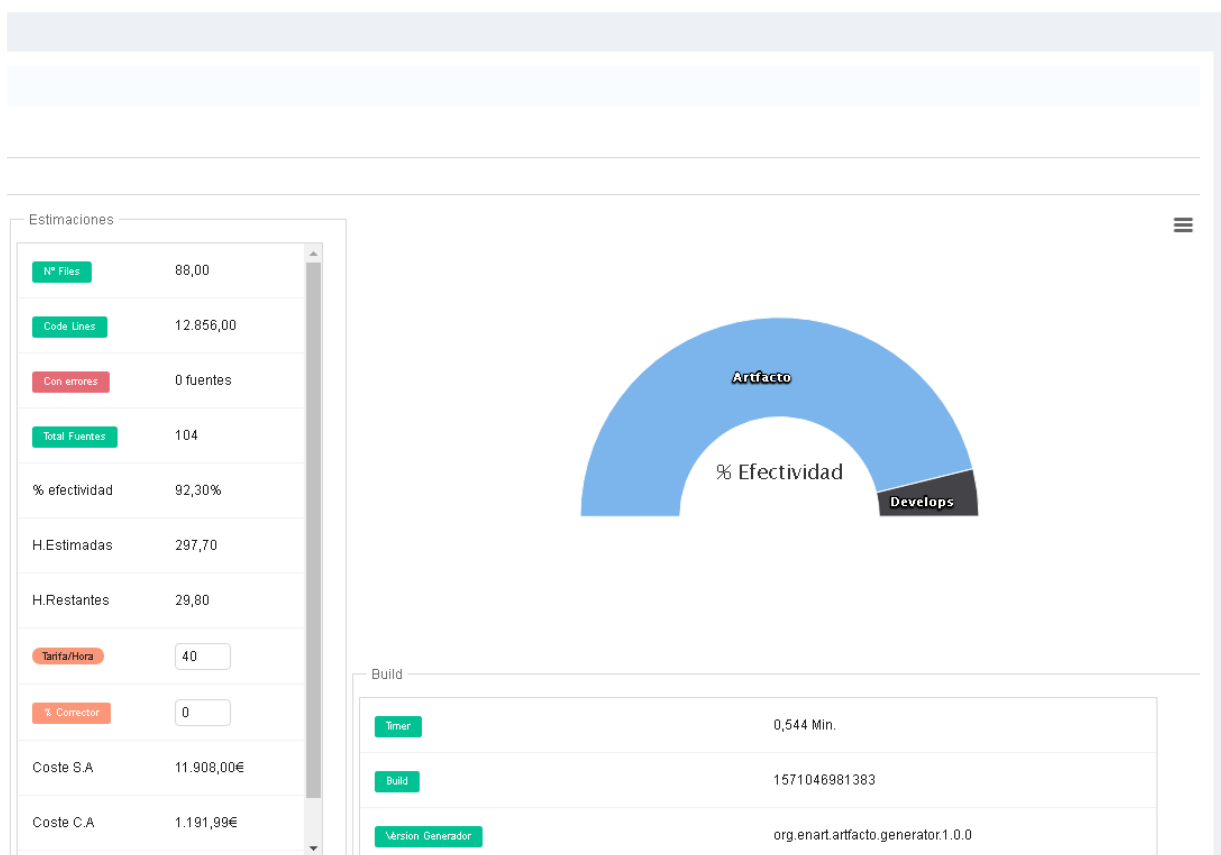
Artfacto will be the first open low code platform that generates applications in multiple technologies (Zkoss, Liferay, Angular, Vaadin, Ionic, . Net, NodeJS, etc), but for our users and the NOCODE version our preference is still Zkoss.

# Architecture

The architecture of our product is quite complex. We use ZK EE for user screens. We have also integrated ZK with Mx graph creating different designers. One of the screen designers has been created entirely with ZK. The data model is integrated with spring and hibernate. Our client-side product runs in an eclipse with an integrated browser, a jetty server and OSGi components.

We use ZK chart to present performance graphs and statistics. For design we use bootstrap in conjunction with ZK theme.

For the EURL version of our framework, we are integrating the ZK Chart, ZK Spreadsheet, ZK Calendar, ZK Theme and ZK Pivotable artifact component palette, so that our users can develop projects with these components.

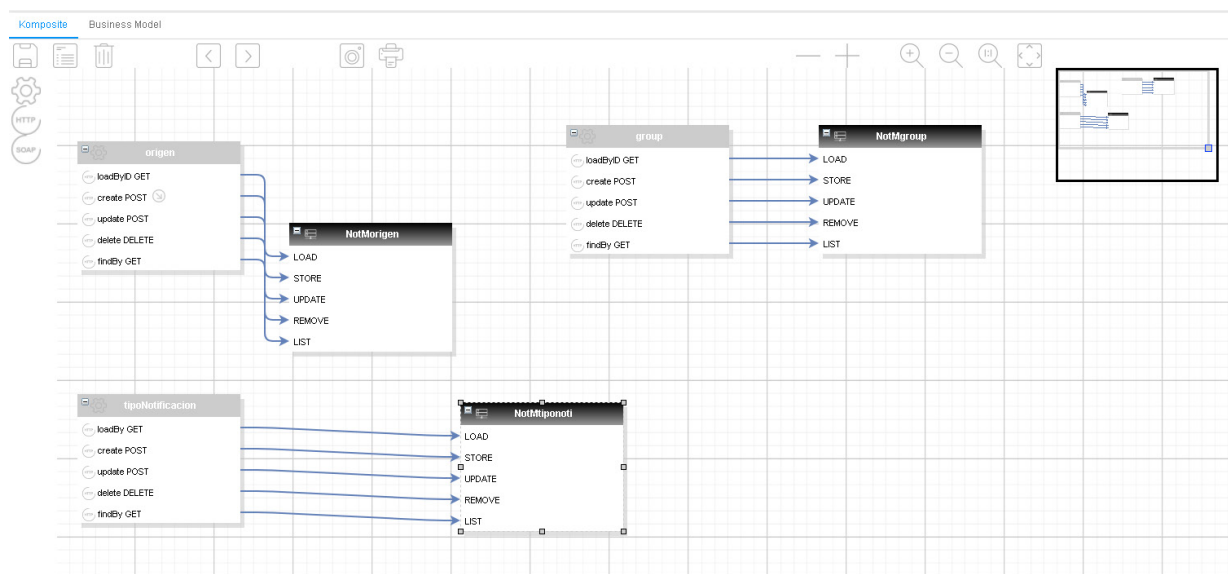


# The Challenge

In 2006, our priority was to find a framework that would allow us to give functionalities of the typical desktop application to an application with a web interface. At that time the Ajax and java-based frameworks were too heavy, and the programming in JavaScript made complex Ajax communication, in addition to security problems since the applications we were developing were for public administrations. At that time, we bet on ZKoss version 2 and today we continue to use it as a preferred framework compared to others that exist in the Market.

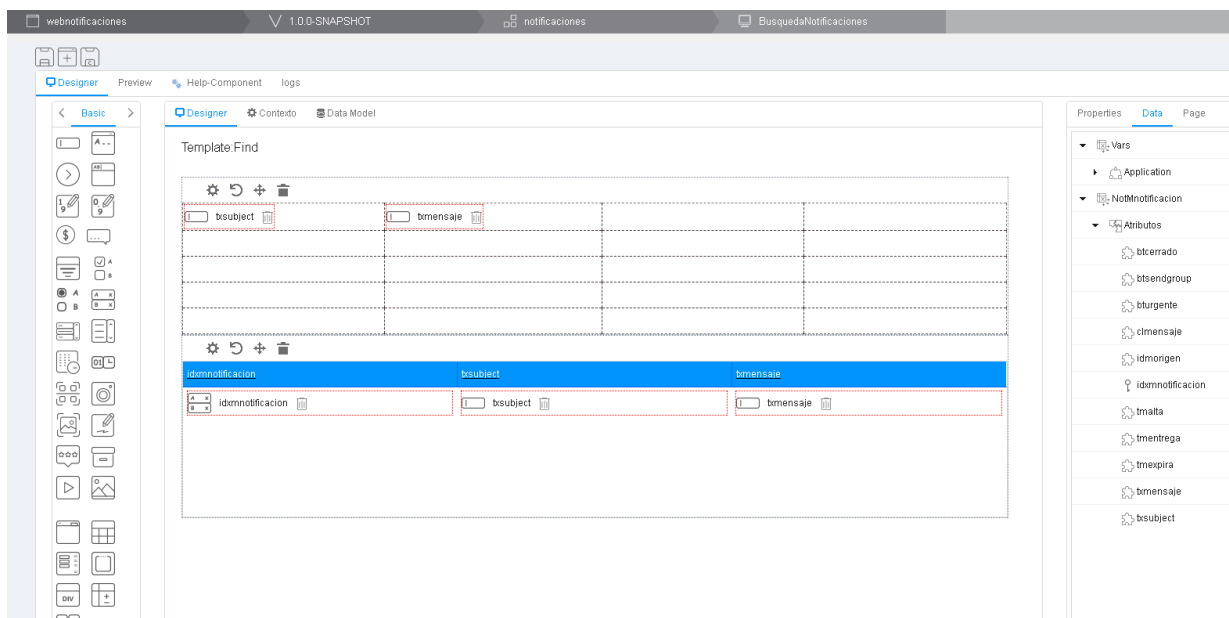
# Why ZK

ZK allowed us to program the interface completely in native java like swing and without the complexity of Google GWT. Also, in version 2, ZK began to add multiple components that facilitated the development, that facility together with that we could extend its components, integrate the Zul screens in our own libraries to protect the application code, encouraged us to implement ZK as our preferred framework. With ZK in addition to executing the projects, we created in 2006 the first graphic version of our low-code platform. Today in 2019 we continue to extend ZK on our platform even testing to support our voice technology.



# The Best of ZK

Thanks to Zkoss, we have developed, among others, our screen designer and its component palette. In addition to the experience acquired in these years, the development of complex event-oriented screens with a large data load is done relatively quickly. The evolution of data bind, as well as its integration with EL and the extension of java components without great complexities in Development, allows us to make our platform in the front-end part very powerful.



# The Result

Our open low code platform offers simple and powerful user interfaces that prevent the developer from writing native code. In addition, we are preparing Artfact so that one of its versions that we will launch in 2020 is 100% NOCODE, this version will allow users to create their own applications in real time and with the possibility of using almost the entire ZK product suite, together with our AI, Semantic, Voice and IoT technology.

**By Zontisa Smart Technology**