



Manuel José González López

Presentation

With more than 28 years of experience in the ICT sector, the last 23 years I have played digesting and building projects based on Java architectures (JEE mainly).

I am specialized in optimization and automation in the generation of quality code to reduce direct project costs and implementing different technologies, methodologies, frameworks and integrations with manufacturers' platforms.

Currently my goal is to collaborate as an Architect executing FullStack architecture projects.

I have directed projects for large private companies in the financial and insurance sector, as well as for public administration, always from a very technological point of view, almost always acting as Project Manager and Head of Architecture.

I have also participated in directing and building vertical products oriented to public administration and lowcode and nocode tools, for multidisciplinary development teams.

I attach to my resume a summary of technical memory with the technologies used in my latest product deployed in hybrid cloud.

Summary Methodologies and Specifications

UML , RUP, Metric 3 (Public Administrations), currently I use Scrum with Kanban.

DDD (Domain Driven Desing) Theoria

Arquitectura Hexagonal, API, MSA, Event Driven architecture (EDA) , API-First y antigua SOA-ESB

BPMN y BPEL , SAGA Choreography

Java design patterns, SOLID, Clean Code , TDD (theory never applied).



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Experience

February 2020 - Current

Freelancer - Architect Microservices and Cloud Infrastructure (K8s)
Design and implement Kubernetes cloud-based MSA Micro Services architecture (OVH,AWS,AKS) with Spring Cloud and Spring Cloud Data Flow .

July 2014-February 2020

CTO • Product and project management • Zontisa (Sabadell)

Lowcode own platform architect developed in java technologies. Project management as factory software for Banc Sabadell in java, angular, micro services, tibco middleware (migration of 700 services from version 2.5 to SG version 3.3 and design and development of the migration of the financial terminal for 16,000 users developed in eclipse swt 4.0, I take care of a team of 45 people.

July 2013 - June 2014

Architect • Technical direction • Job startup(Madrid)

Design of employment platform and nearshoring specialized in the IT sector, similar to cloud or freelancer.com, developed in java technologies including document managers, document indexing, electronic signature and bpmn engine for contracting and outsourcing processes, including secure payment gateway. Some technologies used: java, spring, hibernate, dojo, jboss rules, apache solr, activiti 5, Oracle, integration with social networks REST and Oauth1 services. Team of 5 people.

June 2011-July 2013

Project Manager • Technical project management • Sub-direction of new technologies Justice -SGNTJ Ministry of Justice Spain(Madrid)

Project managed by Banesto. The Orfila project was a platform for forensic physicians from all courts nationwide, integrated with Technologies by Tibco (Services and BPMN), Alfresco Document Manager, Apache SolR search indexer, official communications through Lexnet, SGNTJ digital signature platform and MEDES methodology (Metric 3). The basic technology was Java, Spring and Hibernate. In my charge, I had a team of 35 people.

June 2007-June 2011

Project Manager • Technical project management • Virtual Desk S.L. (Madrid)

In 2007 I led the BIT (Smart Card) project for the transport consortium of the Madrid community. I took over the Department of Architecture and Java Development for public administration projects, designing and developing a vertical product for social services (Socyal) that was

installed in different Spanish municipalities and autonomous communities. The base technology was java, spring, hibernate, Oracle, alfresco document manager, and its own workflow engine developed in java for dossier processes. In my charge, I had a team of 10 people.

January 2007-June 2007

Technical Director • Department and Project Management • Primeria Consulting (Madrid)

Address of java projects for the community of Madrid (Bescam) and Systems Address. In my charge, I had a team of 15 people.

July 2006-December 2006

Project Manager • Project Manager Software Factory • CAST-INFO (Madrid)

Management of java projects for the Madrid and Venezuela Factory, projects for Bankinter in gwt and consultancy on methodology and java patronage together with Borland for IBERIA project managers. Project design for the migration of online travel platforms (viajar.com), consulting migration of Platforms Marketplace of Aquira (Movistar).

Junio 2005-Junio 2006

Architect • Architect JEE • Nextel (Madrid)

Design and Development of java projects for companies of the telephone group in Telefónica Gestiona with java, spring, mybatis, hibernate, struts, Ajax and Oracle databases.

Junio 2003-Junio 2005

Project Manager • JEE technical direction • Grupo SMS (Madrid)

Technical management of java projects for the insurance sector (CESCE) and insurance mediators with a team of 15 people.

1994 - June 2003 (Madrid)

During this period he worked as a java programmer analyst and technical analyst at the following companies by phone R&D, telefonica Admira, WSS, Nextel and Isepro.

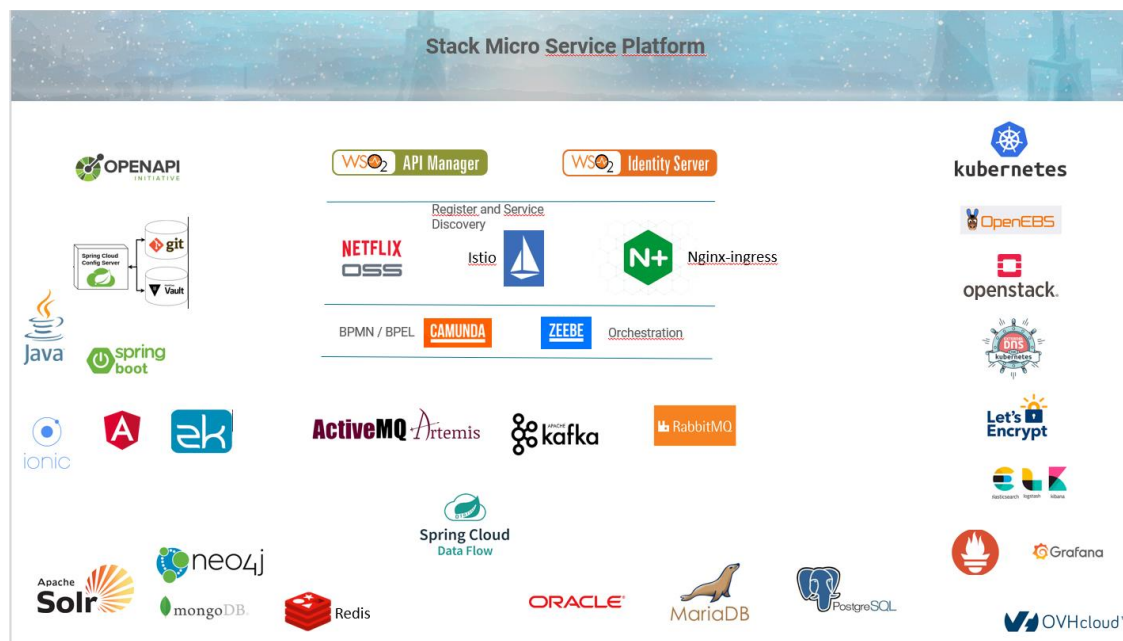
SUMMARY TECHNICAL MEMORY

The project is the creation of a platform for the creation of applications under the nocode and lowcode mode under open source standards that allows the creation of Web, Mobile, Omnichannel, microservices, process and B.I. applications. by drag and drop and integrated with devops tools for automatic publication in different environments (development, UAT, Production ...).

A semantic analysis engine is also implemented and support in Spanish and English for rule making, automated creation of screens and data models, and definition of events and actions, all in natural language.

Tech stack

Each user has a separate instance based on a Pod monitored and managed by AMQP events and REST services.



The platform has been designed under the concept of hexagonal architecture under cluster of kubernetes and microservices with springboot oriented to events

For Multi Cluster and Multi Region the use of **Consul & Gloo** was valued, pending deployment.

The user interface as a design and management platform uses the zkoss framework with springboot, OAuth2, Spring Cloud Config for configuration, and RestTemplate REST client.

Micro Services Designer

Designer D&D with mxGraf to define micro operations with actions in bddd and calls to other soa service operations and microservices (**choreography**).

The use of the **API-First** strategy is implemented, defining the operations and data model of each microservice, as well as calls to other micros and event launches using the SAGA **Choreography** pattern.

The documentation and definition of the json and/or yaml files of each micro is automatically created according to the **openapi3 /swagger** standard.

Persistence can be done using **spring jdbc** or **stream** with **kafka**, in addition to throwing events and listening to them using **AMQP** protocol with **Rabbit**, in the case of Jdbc implements calls for rollback

The microservice implements **spring security** with **JWT** and **OAuth2**.

The microservice is registered in **eureka** published in K8s and also in the **WSO2 API Manager** The Docker is self-published under S.O. Alpine and OpenJDK 11 and entry into **Ingress Loadbalancer**.

The generated code that is 100% accessible applies Clean Code, Design Patterns and SOLID techniques, you can also generate unit tests with Mockitos.

User Interface Designer

The user interface design for Web application allows you to apply both the **API-First strategy** and the **Consumer-First** (traditional) strategy.

The designer can import both microservices models and operations (REST and SOAP) as well as relational data models (Oracle, Postgres, MySQL, H2, HSQL, SqlServer, Access, DB2...) . it also allows the design of the ONLine data model.

The generation of the user interface was carried out in different technologies Zkoss, Angular 8, ReactJS and Ionic 5 (with angular).
