

iDempiere Micro & SIDC

iDempiere ERP/CRM/SCM is based on the original Compiere/Adempiere plus a new architecture to use state of the art technologies like OSGi, jetty, zk and maven. It was named Hero of the Month in 2018 and 2016 and has 4.5 rates on SourceForge.net.

About my project and my background

I am Victor Sleiman. During my work at Soft Solutions, I have managed two migration projects: CATVDM, a Java framework using Spring MVC, Struts, IBatis and JSP as front end was migrated to use Spring MVC, mybatis3 and ZK 7 as front end — QMS, a quality management system using same framework to track day to day client opened tickets and change requests using web sockets; it was successfully deployed on each of the company foreign retail clients to manage day to day opened cases along with Beirut head quarter using WebSockets. Currently, I work on ERP system with another company.

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I studied most of the ERP systems when I was working as an R&D and I liked iDempiere the most. iDempiere Business Suite ERP/CRM/SCM is done the community way. The focus is on the Community that includes Subject Matter Specialists, Implementers and End Users. It is based on the original Compiere / Adempiere plus a new architecture to use state of the art technologies like OSGi, jetty, zk and maven. BTW iDempiere was named Hero of the Month in 2016 and 2018 and has 4.5 rates on SourceForge.net. It has more than 400 downloads per week and [contributors commits exceeded 10000 commits](#).

Currently I am contributing to the iDempiere Micro project using micro services — a better approach than the monolithic applications. I believe this is the new era for every future system to adopt and work with.

ZK x iDempiere Micro

ZK is used in iDempiere Micro project that can be found under the following links:

<https://idempiere-micro.github.io/>

<https://spectrum.chat/idempiere-micro?tab=posts>

iDempiere is a fast learning ERP open source system for medium to big sized companies. The iDempiere itself is already very flexible and extensible, but in iDempiere Micro we allow you to extend the

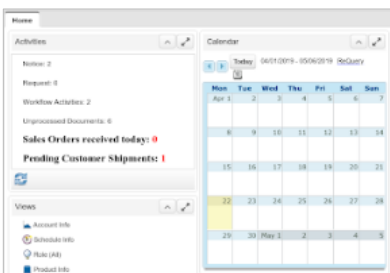
libraries even more:

- We strictly use interfaces for parameters and as a return types
- We try to keep the modules or libraries as uncoupled as possible
- We use IoC and Dependency Injection to allow the actual implementation to be specified later at the final micro service

Thus, any module under the repository can communicate using micro service to a separate module in the main iDempiere ERP system.

The first development phase is finished for some overhead modules , but replacing the OSGI framework with Spring boot Framework did not yet started (It will be deployed under spectrum link).

iDempiere can be used by any kind of business of any size: extra functionalities can be added if using any additional micro services project from the repository. It is fast and extendable but it can be better using micro services and by adopting full java framework like Spring Boot which is an excellent framework to build high production ready applications using micro services architecture.



I also work on another ZK project for SIDC, a NGO organization. After collecting data of 30000 refugees with SIDC, I might start developing a new project for them to manage the healthcare issues for these refugees. Due to coronavirus, I hope to start soon and I just need maximum two months to develop, test and deploy it to production — It will manage the history and the future delivery of free medicines according to their doctor orders, their next visits, and their illness symptoms.

Why ZK

I have used a pretty wide variety of solutions like JSP, JS, JQuery, JSF, ExtJS and DWR. The best about ZK is that it eliminates massive work at the client side; you only need to learn and write one language (Java) and you can integrate your existing project or handle a complete application. This makes ZKOSS a very good choice to consider for your next project. Besides it has a low learning curve, clean concept and a straight documentation.

When using ZK, I like the most about wiring component between the view and its controller: it is also flexible and easy to integrate with other framework like Spring. I think that ZKOSS should be given as prototype course for all computer business courses.

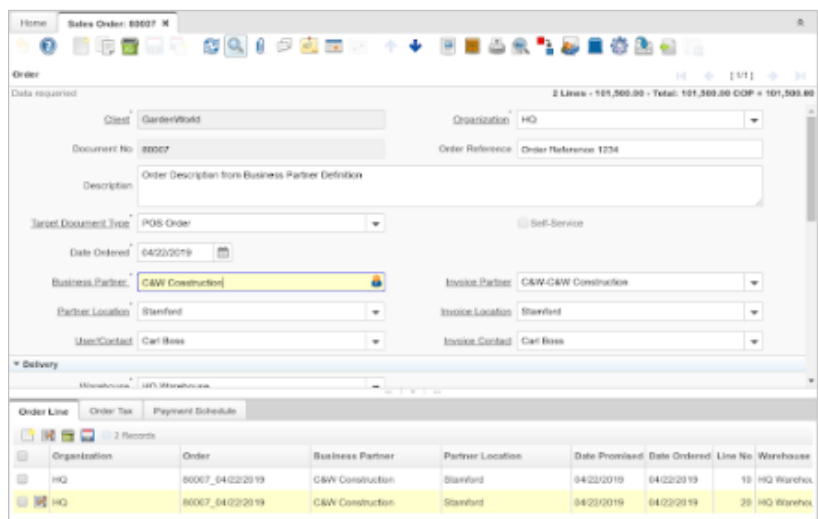
“With ZKOSS framework, anyone can learn and deliver fast production ready application in an extremely short duration”

The Challenge

I think creating a well structured application is very important. One of the applications I created using ZK and MyBatis3 as ORM is better organized than any other code you can find online. Very well structured Service, Repository, Controller ... so every junior developer can start using and coding his business directly without worrying about the infrastructure framework. I have also implemented all framework to work in synchronization and most of all ready for production -- Server cleans itself, apache Tomcat Server configuration centralized file, Logging System using Logback where all error are thrown to the server console along with Query ordered parameter s for better debugging features.

The Result

With ZKOSS framework, anyone can learn and deliver fast production ready application in an extremely short duration: It covers all the features and components that you might need, meeting all mobile specifications from UX and UI rules to make it one of the best compatible mobile framework as well.



About ZK

ZK is the leading enterprise Java Web framework with more than 1,500,000 downloads. ZK is deployed by a large number of Fortune Global 500 companies, including Barclays, Allianz, Swiss RE, Roche, Deutsche Bank, Sony, Sun Microsystems, and Toyota, providing them with the ability to rapidly create rich Ajax enterprise level applications.

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