

# Medexter Healthcare

*Located in Austria, Medexter Healthcare develops and markets knowledge-based systems for clinical decision support. The aim of these high-tech software solutions is to promote quality assurance and patient safety in diagnosis, therapy, prognosis, and patient management.*

## About Medexter

Our core competence and expertise are focused on solving methodological and practical questions related to the representation and processing of clinical knowledge. These efforts culminate in the creation of highly structured digitalized clinical knowledge. This is accomplished through the application of various formal methods from the fields of medical expert and knowledge-based systems. We have extensive experience in the application of such systems in hospitals, wards, laboratories, outpatient departments, and more.

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## ZK x Medexter

ZK is used in two of our projects:

- MONI – monitoring of nosocomial infections
- MOMO – monitoring of microorganisms

The web front-end of these two projects are developed with ZK, These projects started about 3-5 years ago and are currently under development for further features

“.”

## Architecture

We used ZK with Java EE and Hibernate and followed the MVC pattern. ZK is used for the front-end and for communication with a back-end which handles the logic and database communication.

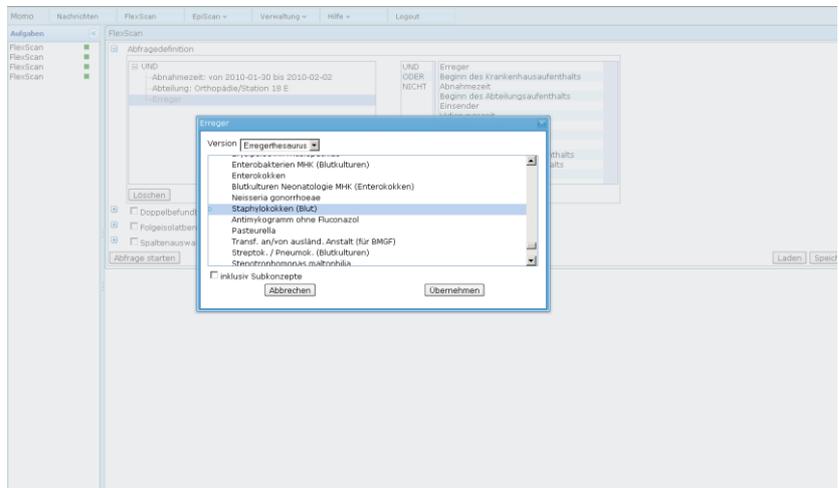
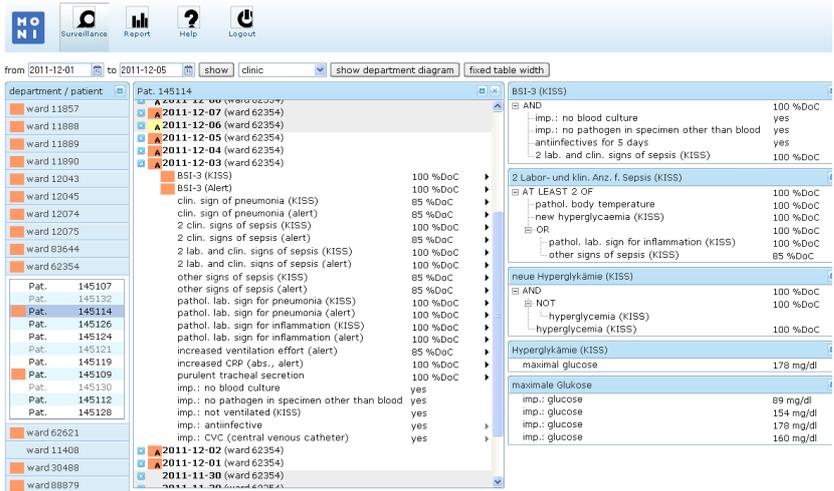
## Best of ZK

ZK is an easy-to-use Framework, especially with the included widgets and bindings from the view to the controller. With this, we can concentrate on our own development without having to deal with tasks and problem fixes with html / network. With ZK, it is easy to build a complex web application front-end within an acceptable timeframe.

## The Result

Currently, the application is running smoothly in production. Our next step is to upgrade our software versions to the latest versions, and possibly switch from MVC to MVVM architecture to leverage clear separation between View and ViewModel, dividing data and logic from presentation to avoid mutual programming ripple effects between UI and the ViewModel.

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## 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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