



**K-INVENT SOFTWARE SOLUTIONS**  
 Kranj, Slovenia  
 www.k-invent.net

**INDUSTRY:**  
 N/A

**ANNUAL REVENUE:**  
 N/A

**EMPLOYEES:**  
 N/A

**ORACLE PRODUCTS AND SERVICES:**  
 Oracle Database 11g  
 Oracle Weblogic 11g  
 Oracle JDeveloper 11g  
 Oracle ADF 11g

**KEY BENEFITS:**

- Decreased time to market by 27%
- Focusing on developing the product, not the technology
- Rich, Ajax enabled user interface controls, including Gantt chart and business data visualization

## K-invent reduced development costs and time-to-market by using Oracle ADF

**"By choosing Oracle Fusion Middleware 11g, we were able to focus on developing our product, not the underlying technology, resulting in 27% shorter time to market."** – Jernej Kaše, CEO, K-Invent software solutions

In early 2008, K-invent software solutions were about to start developing, with the vision of expand the solution to a complete project management / professional services automation package.

Main challenge they faced was implementing a rich, AJAX enabled user interface with support for different browsers and mobile devices with quite limited resources and funding available.

Using Oracle Fusion middleware 11g, they were able to deliver the product with even more UI features they first envisioned, while achieving 27% shorter time to market compared to the platform they previously used (Microsoft.Net). The key benefit was that they were able to focus on their product, rather than underlying technology.

### The vision

Before deciding to develop a new version of the product, K-Invent had a small project cost tracking application installed at a few customers. Due to a positive feedback and enquiries for other features and support for additional use cases by existing and prospect customers, they decided to develop a new, much expanded version of the product.

Their vision was to integrate:

- Project management,
- Resource management,
- Billing,
- Cost/income control on project, profit center and company level
- Basic business process automation

into a single, web based, Ajax enabled application.

### Choosing the platform

At the time, the company was using Microsoft .Net as the software development platform and it was non-questionable that it's also going to be used for the next version of Projektnik.

However, right before the start of development, they became an Oracle Partner. Previously unaware of JDeveloper and ADF, they were astonished by ADF rich components, data visualizations and Gantt charts built into the framework.

They decided to develop a small, proof of concept application on both platforms, and see how they compared. The results were even more astonishing than their first contact with ADF: they were able to develop the proof of concept application quicker with Oracle Fusion Middleware than they were with Microsoft .Net, even though they had no prior experience with Oracle and very limited experience with java.

The demonstrated benefits Oracle Fusion Middleware overweighed risks of using unfamiliar platform so they decided to use the platform for the next version of Projektnik.

### New possibilities

The decision to use Oracle Fusion Middleware and Oracle Database opened new possibilities, one of them being platform independency. As more and more businesses are already using Linux in their IT systems, it was only natural for K-invent to fully exploit this opportunity.

To make possibility a reality, they had to use not only platform independent middleware, but also the database and that's where Oracle Database 11g fits perfectly into the picture.

Now fully released of enforced operating system burden, K-invent could rethink their overall hosting infrastructure architecture. Analysis showed that by choosing Oracle VM and Oracle Enterprise Linux for their hosting environment, the initial investment would be lower by a factor of 8 and total cost over the next three years would be lower by a factor of 2,4. Not only is such system very cost effective, it is also secure, reliable, effective and extensible.

### Success

K-Invent software solutions successfully implemented all the envisioned features of Projektnik, and even added some inspired by the capabilities of the platform.

As time-to-market was greatly reduced by choosing ADF, many of the features previously planned for the second revision were implemented in the first one.

Currently, Projektnik is being used by selected pilot customers and rollout is planned in one month.

### Why Oracle?

By choosing Oracle, K-invent software solutions gained numerous benefits:

- A powerful IDE available for free
- A rich set of user interface components, including Gantt charts, business data visualization and support for mobile devices at no extra costs
- One of the industry's best Business / Data Access Layers with truly object oriented design provided means for implementing business rules once and reuse them across the application, greatly reducing development time and eased maintainability
- The products used are cross platform, suitable for Windows and Linux environments.
- Much lower initial investment for hosting infrastructure
- Oracle VM and Oracle Enterprise Linux provide rock solid, easy to administer and manage infrastructure, and decrease TCO

The company decided to fully embrace Oracle Fusion Middleware as their strategic software development platform for all future products and projects, leaving Microsoft .Net as a thing of the past.

### Implementation Process and Best Practices

K-Invent embraced the “learning by doing” method to embrace Oracle Fusion Middleware, which was generally successful. Still, it was recognized that a few consulting days by an experienced Oracle ADF engineer would be helpful to avoid common pitfalls and to set up architecture and best practices.