SIMPLIFIED J2EE APPLICATIONS
USING SPRING, HIBERNATE AND STRUTS
THURSDAY 19 MAY 2005 (14-21H)
BUSINESS FACULTY (ST. LENDRIKSBORRE 6, NEDER-OVER-HEEMBEEK NEAR BRUSSELS)

GOALS OF THIS SEMINAR:

Although J2EE is generally accepted as *the enterprise platform for the non-proprietary future*, its growth suffers from its inherent complexity. As a result, J2EE is often perceived as a technology for big enterprises building large applications, but this does not need to be true. We now see that *the Java community is uniting around a small number of solutions that try to solve this complexity issue*, reduce development time, have a much better return-on-investment, and lower the total cost of ownership, in particular the maintenance costs.

Learn how *more and more companies are tackling the limitations of J2EE by using open-source initiatives* and have chosen Spring, Hibernate and Struts as the cornerstones for building and successfully delivering J2EE-based projects.

DETAILED PROGRAMME:

13.30-14h: *Registration, Coffee/Tea*

14.00h: *1. What's Wrong with J2EE Development ?*

- The current J2EE state
  - Why do J2EE projects tend to fail ?
  - Lessons learned from the EJB world
- Sun's Best Practices & other Design Patterns

14.30h: *2A. Lightweight Containers*

- What are "lightweight containers" ?
  - Spring, Pico, Hivemind
- Inversion of Control (IoC)
  - Setter, Constructor & Method injection
  - BeanFactory & ApplicationContext
  - Bean Wiring and Autowiring
- Aspect-Oriented Programming (AOP)
  - Before, After and Around Advice
  - Joinpoints, Pointcuts and Weaving
- Transaction Management

15.30h: *Coffee/Tea and Refreshments*

16.00h: *2B. Persistency Strategies*

- Choices in the persistence world
  - JDBC, JDO, Hibernate, TopLink, EJB, ...

- Why Object-Relational Mapping (ORM) ?
- Getting started with Hibernate ORM
- Features and tools
  - POJO Mapping
  - Hibernate Query Language (HQL)
  - Inheritance Mapping Scenarios
  - Detached Objects
  - Relationship Mapping: 1-to-1, 1-to-many, ...
- Future directions of Hibernate and EJB3

17.00h: *2C. Presentation Frameworks*

- The Model-View-Controller (MVC) architecture
- MVC frameworks
  - Struts, JSF, Spring MVC, WebWork, ...
- Struts in Action
  - Controller: Action & ActionForward
  - Model: ActionForms & Model Beans
  - View: <bean:> & tags
  - Declarative Exception
  - DynaForms
  - Tiles

18.00h: *Dinner*

19.00h: *2D. Remoting Strategies*

- Accessing remote services: Hessian, Burlap, JAX-RPC, RMI, HTTP-Invoker

19.30h: *Spring Integration Scenarios*

- Spring & Database Integration
- DataAccessException
- JdbcTemplate
- HibernateTemplate & HibernateDaoSupport
- Spring & Struts Framework
- ActionSupport
- DelegatingActionProxy
- Spring & Enterprise Services
- JndiObjectFactoryBean
- MailSender
- ScheduledTimerTask
- JmsTemplate

20.00h: *What is Next: What is the Future of J2EE, EJB, Spring, Hibernate, Struts, ... ?*

20.30h: *Conclusions and Summary*

21.00h: *End of this Seminar*

OUR SPEAKERS:

Stephan Janssen is founder and managing director of JCS Int, and chairman of the Belgian Java User Group (BeJUG). *Erik Janssens* manages the JCS Academy, the Education Services department of JCS, where he lectures and organizes many in-depth Java related training courses.

This seminar is organized in cooperation with the Belgian specialists in J2EE: **JCS International**, an Authorized Java Center that offers training, consultancy and development, and exclusively focuses on Java, J2ME, J2SE and J2EE.

SEMINAR PRICE:

The price of this seminar is *480 EUR (+ 21 % VAT)*, incl. participation in the seminar, dinner, coffee/tea, and a lot of background information.

DISCOUNTS:

For *simultaneous registrations (one invoice)*, the 2nd participant of the same company receives *10 %*, the 3rd *20 %* and all further participants *30 % discount*. A 20 % discount is given to participants from schools and universities.

CANCELLATION POLICY:

Cancellation is possible up to 1 week before the seminar, if received in writing. In this case, 20 % of the total amount is charged for administration. Otherwise, the full registration fee is due, *regardless of the reason of cancellation*. *Replacement* is possible at no extra charge.

WHO SHOULD ATTEND ?

This seminar is targeted towards:
- solution architects,
- software developers,
- project managers and
- technical IT managers

who want to know how they can simplify Java and J2EE development by using open source projects such as Spring, Hibernate and Struts.

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REGISTRATION FORM

Fax to: (09) 241.56.56 or backup fax (09) 220.34.57 - Questions ? Call (09) 241.56.13 or e-mail seminars@itworks.be

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Agrees with the seminar conditions, and registers for:

Simplified J2EE Applications using Spring, Hibernate and Struts (19 May 2005)

Please send the invoice for 480 EUR (+ 21% VAT) to my company address.

Extra info for invoice (like order nr.):_____

Date _____ Signature _____

Please complete and return this form by mail or fax to: I.T. Works, Innovation Center, Technologiepark 3, 9052 Gent, **fax: (09) 241.56.56** or **(09) 220.34.57**. After receipt of the registration form, you will automatically receive a confirmation, invoice and a detailed access plan.

In case of simultaneous registration (same invoice), the 2nd participant of a company receives 10% discount, the 3rd 20% discount, and all further participants get 30% discount !