

EL4J

FeaturesOfEl4j

Generated from Wiki page:
<http://wiki.elca.ch/twiki/el4j/bin/view/EL4J/FeaturesOfEl4j>

Version	Date	Author(s)	Visa
1.10	05 Feb 2007 – 15:25	Main.PhilippHOser, PhilippHOser	

©ELCA Informatique SA, Switzerland 2007

Table of Contents

1 Unique Features of EL4J.....	1
--------------------------------	---

1 Unique Features of EL4J

This document lists the distinctive features of EL4J. A frequent question about EL4J is what it provides additionally to the frameworks it includes. One benefit of EL4J is certainly the selection, integration, and pre-configuration of leading components. More benefit comes from the *new* features that EL4J provides.

The following list shows the distinctive features of EL4J (this list is not exhaustive, please check also the module documentation and the javadoc):

- Application templates to get quickly started: for GUI, Web and ULC. The goal is to have a running sample application within 10 minutes! In this running application you have a proven structure and sample solutions for typical development issues.
- Support for modules with code, default configuration and dependencies. This feature is based on the build system (Maven 2), the basic spring abstractions, some EL4J support and conventions.
 - ◆ More flexible and robust loading of configuration resources
 - ◇ Inclusion and exclusion list to include/ exclude configuration files
 - ◇ Store the list of configuration resources to load in the jar-file manifest
 - ◇ Merging of spring configuration: adding more parameters to an existing list of parameters
 - ◆ Each EL4J module packages functionality with samples, documentation and default configuration.
- Improved remoting
 - ◆ Easier switching between remoting protocols (unification of remoting protocols)
 - ◆ Remote POJOs via SOAP (simpler than with basic Spring), support for JAXB
 - ◆ Auto-generation of RMI-wrappers for POJOs (via Interface Enrichment)
 - ◆ Provide light load-balancing via the more flexible remoting layer
 - ◆ Implicit context passing over process boundaries
 - ◆ Automatically deploy POJOs as EJB 2.1 beans
- EL4J cockpit
 - ◆ Auto-publication of the list of spring beans with their configuration values, interceptors and other useful info
 - ◆ Get a simple overview of the running threads
 - ◆ Change the log4j configuration dynamically
- Exception handling
 - ◆ Exception handling guidelines
 - ◆ Safety facade
 - ◆ More exception mappings for database accesses (additionally: duplicate values, out of bound values)
- Convenient Maven 2.0 setup
 - ◆ Well thought-through use of Maven. Hierarchical split of configurations. Use of fine-grained projects.
 - ◆ Bugfixes for maven and related tools (we have submitted about 20 patches, some of which are already included in maven)
 - ◆ Own plugin to extend maven: copy tool for combined report generation.
 - ◆ Presentation about how to migrate to mvn and many detailed information and hints
 - ◆ Maven cheat sheet
- GUI: Extension of Spring RCP (an open Swing GUI framework): better support for auto-POJO display, less coding required, more components, ...
- Daemon manager
- License manager
- XML Merger
- Extended file support (fast file observation, directory size information, easier file search capabilities)
- Generic DAO implementation (reduce coding, improve homogenization)
- Easier support for annotation to interceptor mappings (no coding required for basic cases)
- Ajax demo
- TCP forwarder to automatically test TCP connection failures

- Tracking the invocation graph (potentially over process boundaries), measuring performance and generating a sequence diagram for it
- Auto-idempotency interceptor
- Better documentation
 - ◆ Architecture discussions
 - ◆ EL4J Datasheet
 - ◆ Annotation cheat sheets
 - ◆ FAQ & infos on how to solve common problems
 - ◆ Documentation of each feature

The following external components are integrated in EL4J (this list is not exhaustive, please check also the list of included jar-files):

- Spring 2.0 framework
- Maven 2.0, JUnit
- Commons logging, log4j
- Hibernate
- Ibatis
- Acegi security framework
- Spring RCP
- **JWebUnit** and **HtmlUnit**
- Eclipse BIRT
- CGLib
- XFire
- Axis
- Caucho remoting: Hessian & Burlap
- XPF
- DWR
- Struts
- JaMon
- Quartz
- ULC