



java™
component
framework
for
enterprise
environments

Component Framework for
Software Design in JAVA™ / J2EE™

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Developing With JAVA™/J2EE™ Made Easy

J2EE™ designs are complex

Today, the design of new sophisticated software systems is frequently based on a J2EE™ multi-tier architecture. Developments based on JAVA /J2EE™, however, are very complex and might be difficult to master for less experienced developers.



Frameworks to get you started easily

This disadvantage induced Werum to develop JCoffee. This framework reduces complexity considerably and makes it easy to master also for less proficient developers. Thus, developers can concentrate exclusively on programming the application without being troubled by basic technology problems.

Features of JCoffee

Rapid familiarization

A standardized development process with tools and wizards for automatic code generation lets newcomers familiarize themselves with the framework easily and be productive after just a short period of time.

▶ *Productive staff at a much earlier stage*

More efficient application development

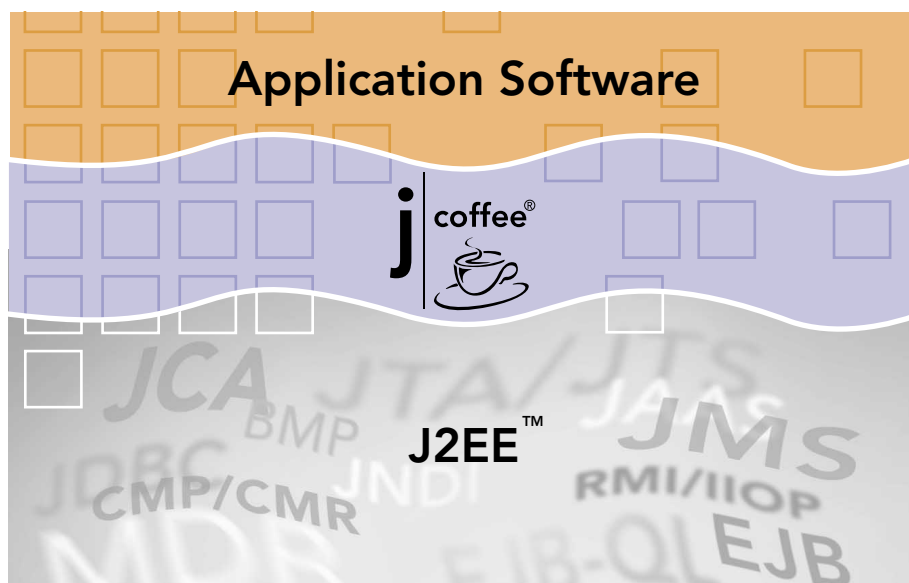
JCoffee includes all the basic functions required in almost any large-scale application project (e.g. user/rights administration, calendar functions, NLS, asynchronous processes, print/report functions). This range of functions is continually advanced and extended. As a result, application developers can start their work on a fairly high level and show early results (rapid prototyping). This, too, increases productivity substantially.

▶ *Rapid prototyping and high level of productivity*

Improved code quality

The development environment of JCoffee also comprises rules and utilities for developing, testing, and documentation to ensure high code quality, prevent software proliferation, and produce a uniform quality standard in the project no matter who is involved in developing. This quality standard not only fulfils the regulations of ISO 9000, it also complies with the requirements of some industries going far beyond this. Particularly the pharmaceutical requirements regarding the development process (GMP, FDA) and functionality (21 CFR 11) are met.

▶ *JCoffee software comes up to the highest standard of quality*



JCoffee hides the J2EE™ world's complexity.

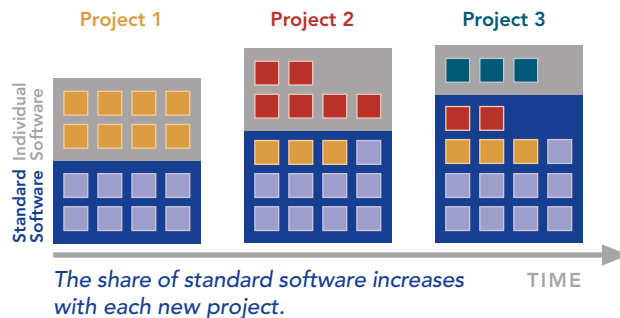


From Individual Software to Standard

JCoffee is exceptionally well suited for developing large, long-term software systems, which are continually adapted and extended in individual projects by various teams changing over the years. Such systems may run in many different customer installations and have many different variants, all of which have to be maintained.

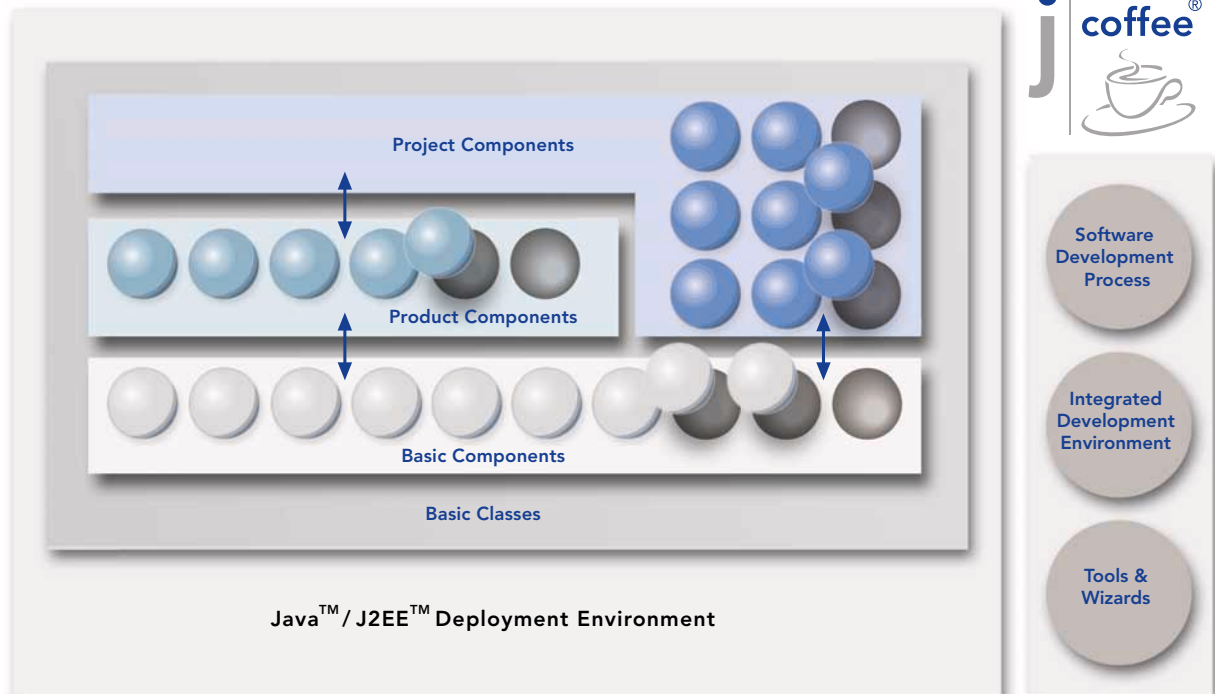
The point in such development projects is to integrate individual expertise and the individual project program codes into the standard system. As a result, the share of standard software strongly increases in the course of time, the share of

individual software declines, and the overall system functionality is expanded, all at the same time.



So, JCoffee is primarily directed at users who develop their own individual software as inhouse standard and at software companies letting their product ideas mature in customer projects.

JCoffee can be used as basic software and be a help to get off the ground. With its architecture and the use of open standards, however, it does not produce any proprietary dependencies.



JCoffee – the framework for component-based software design

Reusability and Flexibility become Reality

Still, the technical component model of the J2EE™ architecture alone does not suffice to develop software that is reusable and can be implemented in project-specific variants at the same time.

It is the application-oriented component model of JCoffee and the use of specific services and contracts that consistently decouple the

components that make the implementation of reusable software components become reality.

This is what makes it easy to adjust the components to project-specific requirements and to configure individual software systems reliably on the basis of standard components.

Technical Data

Basic components

- **UserSession** (component to connect clients to server)
- **UserManagement** (user administration)
- **PolicyManagement** (rights administration for users and terminals)
- **TerminalManagement** (client administration)
- **NL-Support** (natural language support)
- **BatchProgramControl** (control logic to define and execute batch runs)
- **AsynchronProcessing** (mechanism to generate and configure 'secondary' processes)
- **Calendar** (administration of different calendars, e.g. shift definitions)
- **ConfigManagement** (configuration of system/users/terminals)
- **ArchiveManagement** (archiving functionality)
- **AuditTrail** (logging of changes)
- **Workflow** (definition of documents and their workflows)
- **Print** (printing and print job management of reports, labels, etc.)
- **Systemlogging, ObjectStore**

Technical environment

Database: Oracle*
Application server: BEA*
Development environment: Eclipse
Development platform: Java™, J2EE™

** JCoffee does not depend on these specific tools. As they are standardized tools, they can also be replaced by other products.*

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JCoffee is the result of a joint development by the partners:



GEHIS



GEHE Informatik Services
GmbH & Co. KG
Neckartalstrasse 155
70376 Stuttgart
Germany
Tel. +49 (0) 711/ 577 19-0
Fax +49 (0) 711/ 577 19- 400
kontakt@gehe.de
www.gehe.de



werum
SOFTWARE & SYSTEMS

Werum
Software & Systems AG
Wulf-Werum-Strasse 3
21337 Lueneburg
Germany
Tel. +49 (0) 4131/8900-0
Fax +49 (0) 4131/8900-20
info@werum.com
www.werum.com



Zitecs
GmbH & Co. KG
Haldenstrasse 34
70736 Fellbach
Germany
Tel. +49 (0) 711/ 5108-475
Fax +49 (0) 711/ 5108-495
info@zitecs.de
www.zitecs.de