



Java EE 7 Developer Handbook

By Peter A. Pilgrim

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Update your knowledge of the Enterprise Java platform through this user-friendly tutorial that's designed around real-life examples. The pragmatic approach means you'll be up to speed almost effortlessly. For intermediate users upwards.

Overview

- Learn about local and remote service endpoints, containers, architecture, synchronous and asynchronous invocations, and remote communications in a concise reference
- Understand the architecture of the Java EE platform and then apply the new Java EE 7 enhancements to benefit your own business-critical applications
- Learn about integration test development on Java EE with Arquillian Framework and the Gradle build system
- Learn about containerless builds featuring the GlassFish 4.0 embedded application server
- Master Java EE 7 with this example-based, up-to-date guide with descriptions and explanations

In Detail

The seventh edition of the Enterprise Java platform is aimed at helping Java engineers take advantage of the advancements in HTML5 and web standards. Web Sockets, asynchronous input and output with Servlets, and strong type safety through the CDI containers will ensure that Java EE 7 remains popular for server-side applications.

If you are a user aiming to get acquainted with the Java EE 7 platform, this book is for you.

"Java EE 7 Handbook" provides a solid foundation of knowledge for developers to build business applications. Following the lead of Agile practices, there is a focus on writing tests to demonstrate test-driven development principles, using the embedded GlassFish 4.0 container examples and the Gradle build system. You will learn about CDI, EJB, JPA, JMS, MDB, Servlets, WebSocket, JAX-RS, Bean Validation, and so much more.

"Java EE 7 Handbook" is designed as a companion to the professional software developer who quickly needs to lookup some working code, understand the basics of the framework, and then go out and fulfill the business contract with the customer. Typically, engineers are under pressure to develop professional code that is of high quality and contains a low number of bugs. Java EE 7 Handbook relies heavily on the Arquillian framework to illustrate how much easier it is to write Java EE tests, and together with the modern practice of writing containerless applications that actually embed an application container, developing agile Java EE suddenly becomes reasonable, smart, pragmatic, and achievable.

What you will learn from this book

- Understand the JSR and the API that are assembled together for Java EE 7
- Write server side and client side WebSocket connection in Java
- Understand the essential differences and similarities between the EJB and CDI containers, as well as dependency injection
- Learn about Gradle builds, embedded containers, and the Arquillian Framework
- Build server side endpoints with EJB in stateless, stateful, and singleton modes
- Write REST server side endpoints on the client and server side
- Write asynchronous Servlet input and output and also annotated Servlet, Context Listeners
- Map entities in Java Persistence with the essential cardinalities including the Java side of many-to-many relationships
- Learn about mapping entities to stored procedures and entity graphs
- Fully understand how to verify your POJO before they hit the database with Bean Validation API
- Be prepared for the Java EE 8 journey and beyond, which may include deployment to the cloud

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Editorial Review

About the Author

Peter A Pilgrim

Peter A. Pilgrim is the 91st Oracle Java Champion, an independent contractor, a professional software developer and designer. Peter is an honors degree graduate of London South Bank University in 1990. He had already secured a Master's degree course for September 1991, but then instead elected to live and work in Germany for a few years in order to beat off the then, economic recession. He spent productive years at a joint-venture company developing spectroscopic scientific software in Fortran 77, C, Solaris, and X Windows.

After four years abroad Peter returned to London and continued his career in the industry with more C, C++, and UNIX development. He then leapt at a chance to get into investment banking with Deutsche Bank in 1998. It was at Deutsche Bank a week after joining them that Peter discovered Java was the next best thing since sliced bread, when a colleague dropped out of a programming Java training course.

As the substitute person, Peter realized this peculiar Java language and platform was the future and the answer. Peter applied his studies to his day job and learnt Java applets, then Java Swing and switched over to the server side with Java Servlets with web applications involving the Struts framework.

In 2004, Peter created the JAVAWUG user group in London for the burgeoning development community who were interested in web development on the Java EE. What started as the Struts Networking Users Group in London quickly expanded to lot of other areas. The JAVAWUG ran for six years until 2010. He built a reputation for travelling to Java technology conferences in the US and Europe and being heavily involved in the wider community. He spoke at several developer conferences including QCon London, ACCU, Devovx, Devovx UK, and JavaOne. In 2007, Peter was elected to the Sun Microsystems' Java Champions program. Today, Peter A. Pilgrim is a well-known specialist in Java Enterprise Edition (Java EE) technology, focused on the server-side and the implementation of electronic commerce. Peter has built professional Java EE applications for Blue-chip companies and top-tier investment and retail banks including Lloyds Banking Group, Barclays, UBS, Credit Suisse, Royal Bank of Scotland, and LBi. He is also a fan of Agile practices and Test Driven Development. Peter, currently, lives in South London with his long-term partner Terry, who is a Scottish Diva, business communication coach, and a singer—her voice is phenomenal.

Peter writes a blog at <http://www.xenonique.co.uk/blog/> and is on Twitter as peter_pilgrim.

Users Review

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