Community Experience Distilled

Java EE 6 Development with NetBeans 7

Develop professional enterprise Java EE applications quickly and easily with this popular IDE

David R. Heffelfinger

[PACKT] PUBLISHING open source* community experience distilled

www.it-ebooks.info

Java EE 6 Development with NetBeans 7

Develop professional enterprise Java EE applications quickly and easily with this popular IDE

David R. Heffelfinger

BIRMINGHAM - MUMBAI

[PACKT] PUBLISHING

www.it-ebooks.info

Java EE 6 Development with NetBeans 7

Copyright © 2011 Packt Publishing

All rights reserved. No part of this book may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without the prior written permission of the publisher, except in the case of brief quotations embedded in critical articles or reviews.

Every effort has been made in the preparation of this book to ensure the accuracy of the information presented. However, the information contained in this book is sold without warranty, either express or implied. Neither the author, nor Packt Publishing, and its dealers and distributors will be held liable for any damages caused or alleged to be caused directly or indirectly by this book.

Packt Publishing has endeavored to provide trademark information about all of the companies and products mentioned in this book by the appropriate use of capitals. However, Packt Publishing cannot guarantee the accuracy of this information.

First published: June 2011

Production Reference: 1130611

Published by Packt Publishing Ltd.
32 Lincoln Road
Olton
Birmingham, B27 6PA, UK.

ISBN 978-1-849512-70-1

www.packtpub.com

Cover Image by Asher Wishkerman (wishkerman@hotmail.com)

www.it-ebooks.info

Credits

Author
David R. Heffelfinger

Reviewers
Allan Bond
Arun Gupta
Bruno Vernay

Acquisition Editor
Douglas Patterson

Development Editor
Kartikey Pandey

Technical Editor
Pallavi Kachare

Project Coordinator
Shubhanjan Chatterjee

Proofreader
Mario Cecere

Indexer
Hemangini Bari

Production Coordinator
Adline Swetha Jesuthas

Cover Work
Adline Swetha Jesuthas

[PACKT PUBLISHING]

www.it-ebooks.info

About the Author

David R. Heffelfinger is the Chief Technology Officer of Ensode Technology, LLC, a software consulting firm based in the greater Washington DC area. He has been architecting, designing, and developing software professionally since 1995. He has been using Java as his primary programming language since 1996. He has worked on many large scale projects for several clients including IBM, Accenture, Lockheed Martin, Fannie Mae, Freddie Mac, the US Department of Homeland Security, and the US Department of Defense. He has a Masters degree in Software Engineering from Southern Methodist University. David is an editor in chief of `Ensode.net` (`http://www.ensode.net`), a web site about Java, Linux, and other technology topics.

I would like to thank everyone whose help made this book a reality. I would like to thank the Development Editors, Kartikey Pandey and Tariq Rakhange; and the Project Coordinator, Shubhanjan Chatterjee.

I would also like to thank the technical reviewers, Allan Bond, Arun Gupta, and Bruno Vernay for their insightful comments and suggestions.

Additionally, I would like to thank the NetBeans team at Oracle for developing such an outstanding IDE.

Finally, I would like to thank my wife and daughter, for putting up with the long hours of work that kept me away from the family.

[PACKT PUBLISHING]

www.it-ebooks.info

About the Reviewers

Allan Bond is a software developer who has been active in the IT industry for over 10 years. His primary focus is systems development using Java and related technologies. He has worked and consulted for a variety of organizations ranging from small businesses to Fortune 500 companies and government agencies. Allan holds a Masters degree in Information Systems Management from Brigham Young University.

I would like to thank my wife and children for their patience during the nights (and sometimes weekends) I needed to complete the review of this book.

Arun Gupta is a Java EE and GlassFish evangelist working at Oracle. Arun has over 15 years of experience in the software industry working in the Java(TM) platform and several web-related technologies. In his current role, he works to create and foster the community around Java EE and GlassFish. He has been with the Java EE team since its inception and contributed to all Java EE releases. Arun has extensive world wide speaking experience on a myriad of topics and loves to engage with the community, customers, partners, and Java User Groups everywhere to spread the goodness of Java.

He is a prolific blogger at `http://blogs.oracle.com/arungupta` with over 1200 blog entries and frequent visitors from all around the world with cumulative page visits > 1.2 million. He is a passionate runner and always up for running in any part of the world. You can catch him at `@arungupta`.

www.it-ebooks.info

Bruno Vernay has been through Database and Web development, Network & Security, Messaging and Rule Engines, Data Mining, Portal, SSO and Federation. All this with Java, Linux, and Open Source. He is still asking for more after almost 13 years. He enjoys the "human adventure", engages with the community globally and locally and also participates in the group AlpesJUG.FR. He likes new technologies as much as getting rid of old unneeded ones. He tries to take the time to learn new stuff by reading books. He likes to be useful.

[PACKT PUBLISHING]

www.it-ebooks.info

www.PacktPub.com

Support files, eBooks, discount offers and more

You might want to visit `www.PacktPub.com` for support files and downloads related to your book.

Did you know that Packt offers eBook versions of every book published, with PDF and ePub files available? You can upgrade to the eBook version at `www.PacktPub.com` and as a print book customer, you are entitled to a discount on the eBook copy. Get in touch with us at `service@packtpub.com` for more details.

At `www.PacktPub.com`, you can also read a collection of free technical articles, sign up for a range of free newsletters and receive exclusive discounts and offers on Packt books and eBooks.

`http://PacktLib.PacktPub.com`

Do you need instant solutions to your IT questions? PacktLib is Packt's online digital book library. Here, you can access, read and search across Packt's entire library of books.

Why Subscribe?

- Fully searchable across every book published by Packt
- Copy and paste, print and bookmark content
- On demand and accessible via web browser

Free Access for Packt account holders

If you have an account with Packt at `www.PacktPub.com`, you can use this to access PacktLib today and view nine entirely free books. Simply use your login credentials for immediate access.

www.it-ebooks.info

www.it-ebooks.info

Table of Contents

Preface **1**

Chapter 1: Getting Started with NetBeans **7**

Introduction **7**
Obtaining NetBeans **8**
Installing NetBeans **12**
Microsoft Windows 12
Mac OS X 12
Linux and Solaris 13
Other platforms 13
Installation procedure 13
Starting NetBeans for the first time **20**
Configuring NetBeans for Java EE development **21**
Integrating NetBeans with a third party application server 21
Integrating NetBeans with a third party RDBMS 25
Adding a JDBC driver to NetBeans 25
Connecting to a third party RDBMS 27
Deploying our first application **29**
NetBeans tips for effective development **33**
Code completion 33
Code templates 37
Keyboard shortcuts 39
Understanding NetBeans visual cues 43
Summary **45**

PACKT PUBLISHING

www.it-ebooks.info