

SCJD Exam with J2SE 5

Second Edition



Andrew Monkhouse and Terry Camerlengo

SCJD Exam with J2SE 5, Second Edition

Copyright © 2006 by Andrew Monkhouse and Terry Camerlengo

All rights reserved. No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage or retrieval system, without the prior written permission of the copyright owner and the publisher.

ISBN (pbk): 1-59059-516-5

Printed and bound in the United States of America 9 8 7 6 5 4 3 2 1

Trademarked names may appear in this book. Rather than use a trademark symbol with every occurrence of a trademarked name, we use the names only in an editorial fashion and to the benefit of the trademark owner, with no intention of infringement of the trademark.

Lead Editor: Jason Gilmore

Technical Reviewer: Jim Yingst

Editorial Board: Steve Anglin, Dan Appleman, Ewan Buckingham, Gary Cornell, Tony Davis,

Jason Gilmore, Jonathan Hassell, Chris Mills, Dominic Shakeshaft, Jim Sumser

Project Manager: Beth Christmas

Copy Edit Manager: Nicole LeClerc

Copy Editor: Liz Welch

Assistant Production Director: Kari Brooks-Copony

Production Editor: Lori Bring

Compositor: Dina Quan

Proofreader: Elizabeth Berry

Indexer: John Collin

Artist: Kinetic Publishing Services, LLC

Cover Designer: Kurt Krames

Manufacturing Director: Tom Debolski

Distributed to the book trade worldwide by Springer-Verlag New York, Inc., 233 Spring Street, 6th Floor, New York, NY 10013. Phone 1-800-SPRINGER, fax 201-348-4505, e-mail orders-ny@springer-sbm.com, or visit <http://www.springeronline.com>.

For information on translations, please contact Apress directly at 2560 Ninth Street, Suite 219, Berkeley, CA 94710. Phone 510-549-5930, fax 510-549-5939, e-mail info@apress.com, or visit <http://www.apress.com>.

The information in this book is distributed on an “as is” basis, without warranty. Although every precaution has been taken in the preparation of this work, neither the author(s) nor Apress shall have any liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the information contained in this work.

The source code for this book is available to readers at <http://www.apress.com> in the Source Code section. You will need to answer questions pertaining to this book in order to successfully download the code.

Contents at a Glance

About the Authors	xi
About the Technical Reviewer	xiii
Acknowledgments	xv
Introduction	xvii

PART 1 ■ ■ ■ Introduction and General Development Considerations

■ CHAPTER 1	Introduction	3
■ CHAPTER 2	Project Analysis and Design	11
■ CHAPTER 3	Project Overview	57

PART 2 ■ ■ ■ Implementing a J2SE Project

■ CHAPTER 4	Threading	71
■ CHAPTER 5	The DvdDatabase Class	119
■ CHAPTER 6	Networking with RMI	163
■ CHAPTER 7	Networking with Sockets	199
■ CHAPTER 8	The Graphical User Interfaces	225

PART 3 ■ ■ ■ Wrap-Up

■ CHAPTER 9	Project Wrap-Up	295
■ INDEX		325