

Table of Content

Table of Content	2
About the Authors.....	5
Acknowledgments.....	7
Tell Us What You Think.....	8
Introduction.....	9
Who Should Read This Book	9
Who This Book Is Not For.....	9
Overview.....	9
Conventions Used in This Book	10
Chapter 1. An Introduction to Internet Applications	11
A Brief History of Internet Applications	11
Scripting Languages.....	16
Application Architectures	22
The Challenges of Building Internet Applications	28
Using Cocoon to Meet the Challenges.....	31
Chapter 2. Building the Machine Web with XML	33
HTML Applications.....	33
XML Arrives on the Scene	36
Extensible Stylesheet Language (XSL) and XSL Transformations (XSLT).....	43
Building XML Applications	50
Apache Cocoon.....	56
Summary	58
Chapter 3. Getting Started with Cocoon	59
Prerequisites for Installing Cocoon.....	59
Step-by-Step Instructions.....	60
Obtaining a Newer Version of Cocoon.....	67
On We Go	69
Chapter 4. Putting Cocoon to Work.....	70
Cocoon: The Big Picture.....	70
A Closer Look at the Sitemap	78
Getting Practical.....	88
Advanced Components and Examples.....	119
Summary	134
Chapter 5. Cocoon News Portal: Entry Version	136
Which Data Sources?	136
Designing the Layout.....	138
The Application Architecture	141
Putting It All Together	143
The Complete Entry Version	147
Chapter 6. A User's Look at the Cocoon Architecture	148
The Cocoon Architecture in Detail	148
Advanced Sitemap Features.....	163
Using the Command-Line Interface.....	182
Practical Examples and Tips.....	184

Wrapping Up the User Perspective.....	193
Chapter 7. Cocoon News Portal: Extended Version.....	195
Designing the Portal.....	196
Integrating Data Sources into the Portal.....	199
Building the Portal's Functionality.....	202
Closing the Portal.....	216
Chapter 8. A Developer's Look at the Cocoon Architecture.....	217
The Avalon Component Model	218
SAX Event Handling	234
Cocoon Internals	239
Enough Theory.....	251
Chapter 9. Developing Components for Cocoon.....	252
What Is Needed to Develop Cocoon Components	252
Sitemap Components	253
Advanced Components	281
Wrapping Up the Developer Perspective.....	302
Chapter 10. Cocoon News Portal: Advanced Version.....	303
Extensible Server Pages (XSP).....	303
Extending the Extended Portal.....	311
Building the Portal with XSP.....	314
Adding New Features	320
Running the Portal	323
Conceiving and Designing a Cocoon Application.....	325
Chapter 11. Designing Cocoon Applications.....	326
The Application Concept	327
Different Types of Applications	337
Summary	341
Chapter 12. Cocoon: Weaving the Future.....	342
The Evolving Cocoon Architecture	342
Cocoon Usage Scenarios.....	346
Unraveling Cocoon	350
Appendix A. Cocoon Components	351
Common Components in cocoon.xconf.....	359
Appendix B. Cocoon API Specifications.....	363
Avalon Framework and LogKit.....	363
Cocoon	383
SAX.....	436
Appendix C. Links on the Web.....	453
Chapter 1, "An Introduction to Internet Applications"	453
Chapter 2, "Building the Machine Web with XML"	454
Chapter 3, "Getting Started with Cocoon"	455
Chapter 4, "Putting Cocoon to Work"	456
Chapter 5, "Cocoon News Portal: Entry Version"	456
Chapter 7, "Cocoon News Portal: Extended Version"	457
Chapter 8, "A Developer's Look at the Cocoon Architecture"	457
Chapter 9, "Developing Components for Cocoon"	457