

# Contents

<b>Preface</b>	<b>xv</b>
<b>Chapter 1: An Inside Look at the Evolution of DotNetNuke</b>	<b>1</b>
<b>IBuySpy Portal</b>	<b>2</b>
<b>ASP.NET</b>	<b>3</b>
<b>IBuySpy Portal Forum</b>	<b>5</b>
<b>IBuySpy Workshop</b>	<b>6</b>
<b>DotNetNuke (DNN) Web Site</b>	<b>22</b>
<b>Chapter 2: Installing DotNetNuke</b>	<b>29</b>
<b>Preparation</b>	<b>29</b>
Objectives	30
Hardware Prerequisites	30
Software Prerequisites	31
Hosting Prerequisites	31
<b>Implementation</b>	<b>31</b>
Downloading DotNetNuke	32
Extracting the Installation File	32
Creating the Database	32
Creating the Database User	34
Setting Permissions	38
Creating the Web Site	39
Configuring .NET Nuke	44
Testing the Installation	45
Common Installation Issues	48
<b>Explanation</b>	<b>49</b>
Scenario 1: The Clean Install	50
Scenario 2: The Upgrade	51
<b>Installation Templates</b>	<b>51</b>
<b>Summary</b>	<b>53</b>

# Contents

---

<b>Chapter 3: Portal Overview</b>	<b>55</b>
<b>What Is a Portal?</b>	<b>55</b>
<b>Portal Organizational Elements</b>	<b>56</b>
Parent/Child Portals	56
Pages	57
Panels	58
Containers	59
<b>Modules</b>	<b>60</b>
Account Login	61
Announcements	61
Banners	61
Contacts	61
Discussions	61
Documents	61
Events	62
FAQ	62
Feedback	62
IFrame	62
Image	62
Links	62
News Feeds (RSS)	62
Search Input	63
Search Results	63
Text/HTML	63
User Accounts	63
User Defined Table	63
XML/XSL	63
Additional Modules	63
<b>User Roles</b>	<b>64</b>
<b>Summary</b>	<b>64</b>
<b>Chapter 4: Portal Administration</b>	<b>65</b>
<b>Who Is the Portal Administrator?</b>	<b>65</b>
<b>Where Do I Begin?</b>	<b>66</b>
<b>The Control Panel</b>	<b>67</b>
The Site Wizard	68
The Help Button	75
The Preview Button	75
<b>Configuring Your Portal</b>	<b>76</b>
Site Settings	76
Security Roles	83

---

Pages	87
Skins	91
File Manager	92
Languages	95
<b>Maintaining Your Portal</b>	<b>100</b>
User Accounts	100
Vendors	103
Newsletters	106
Site Log	107
Recycle Bin	108
Log Viewer	109
<b>Summary</b>	<b>111</b>
<b>Chapter 5: Host Administration</b>	<b>113</b>
<b>Who Is the Host?</b>	<b>113</b>
<b>Where Do I Begin?</b>	<b>114</b>
SuperUsers Accounts	115
<b>Configuring Your Installation</b>	<b>116</b>
Host Settings	116
<b>Managing Portals as Host</b>	<b>126</b>
Portals	126
Skins	130
Log Viewer	131
<b>Other Host Tools</b>	<b>133</b>
Module Definitions	133
File Manager	137
Vendors	138
SQL	138
Schedule	139
Languages	144
Search Admin	147
Lists	148
Skins	150
Summary	150
<b>Chapter 6: Modules</b>	<b>151</b>
<b>Module Architecture</b>	<b>151</b>
Portal	151
Page	153
Module	153
Module Container	154

# Contents

---

<b>Types of Modules</b>	<b>155</b>
Announcements Module	155
Banner Module	161
Contacts Module	163
Discussions Module	163
Documents Module	164
Events Module	166
FAQs Module	168
Feedback Module	169
IFrame Module	169
Image Module	170
Links Module	171
News Feed (RSS)	172
HTML/Text Module	173
User Defined Table Module	174
XML/XSL Module	175
<b>Management</b>	<b>176</b>
Page Management	176
Module Management	178
<b>Installation</b>	<b>183</b>
<b>Summary</b>	<b>185</b>
<b>Chapter 7: DotNetNuke Architecture</b>	<b>187</b>
<b>Technologies Used</b>	<b>187</b>
<b>Provider Model</b>	<b>188</b>
Provider Configuration	190
<b>Custom Business Objects</b>	<b>190</b>
CBO Hydrator	192
<b>Architectural Overview</b>	<b>195</b>
Presentation Layer	196
Business Logic Layer	197
Data Access Layer	198
Data Layer	199
<b>Security Model</b>	<b>201</b>
Security in ASPNET 2.0	201
DotNetNuke and ASPNET 2.0	202
Security in DotNetNuke 3.0	202
<b>Namespace Overview</b>	<b>205</b>
<b>Summary</b>	<b>206</b>

---

<b>Chapter 8: Core DotNetNuke APIs</b>	<b>207</b>
<b>Introduction</b>	<b>207</b>
<b>Event Logging</b>	<b>208</b>
The API	208
<b>Exception Handling</b>	<b>216</b>
The Exceptions Class	217
<b>Localization</b>	<b>221</b>
Locales	222
Resource Files	222
The API	224
<b>Scheduler</b>	<b>230</b>
<b>HTTPModules</b>	<b>232</b>
HTTP Modules 101	232
DotNetNuke HTTP Modules	235
<b>Module Interfaces</b>	<b>240</b>
IActionable	241
IPortable	251
IUpgradable	253
Inter-Module Communication	253
ISearchable	254
<b>Summary</b>	<b>257</b>
<b>Chapter 9: Beginning Module Development</b>	<b>259</b>
<b>Planning Your Module Project</b>	<b>259</b>
Ready Your Resources	261
<b>Starting Development</b>	<b>261</b>
Configuring Your Visual Studio .NET Project	262
Configuring DotNetNuke to Interface with Your Module	265
<b>Summary</b>	<b>270</b>
<b>Chapter 10: Developing Modules: The Database Layer</b>	<b>273</b>
<b>Database Design</b>	<b>274</b>
Database Structure	274
<b>Database Providers</b>	<b>280</b>
SQLDataProvider Class	280
<b>Data Abstraction</b>	<b>285</b>
DataProvider Class	286
<b>Summary</b>	<b>287</b>

# Contents

---

<b>Chapter 11: Developing Modules: Business Logic Layer</b>	<b>289</b>
<b>Developing the Business Logic Layer</b>	<b>289</b>
<b>Defining the Properties for the Info Class</b>	<b>290</b>
<b>Creating Objects Using the Controller Class</b>	<b>293</b>
Custom Business Object Help Class	295
Optional Interfaces for the Events Module Controller Class	295
<b>Summary</b>	<b>298</b>
<b>Chapter 12: Developing Modules: The Presentation Layer</b>	<b>299</b>
<b>Module User Interfaces</b>	<b>299</b>
View Control	301
Settings Control	313
Edit Control	316
<b>DotNetNuke Helper Functions</b>	<b>327</b>
Error Handling	327
Navigation URLs	328
<b>Summary</b>	<b>329</b>
<b>Chapter 13: Skinning DotNetNuke</b>	<b>331</b>
<b>File Organization</b>	<b>332</b>
<b>Processing Pages and Loading Skins</b>	<b>332</b>
<b>Packaging Skins and Containers</b>	<b>335</b>
<b>Creating Your Skin</b>	<b>336</b>
Container Creation	348
<b>Summary</b>	<b>352</b>
<b>Chapter 14: Distribution</b>	<b>353</b>
<b>Code Add-Ons</b>	<b>354</b>
<b>Modules</b>	<b>354</b>
Module Manifest File	354
Packaging Modules	360
Resource File	361
Installing Modules	362
<b>Skin Objects</b>	<b>365</b>
Skin Object Manifest File	368
<b>Providers</b>	<b>369</b>
Provider Manifest File	369
<b>Skinning Add-Ons</b>	<b>370</b>

---

<b>Skins</b>	<b>370</b>
Packaging Skins	370
Skin Configuration Files	372
Installing Skins	374
<b>Containers</b>	<b>378</b>
Packaging Containers	378
Installing Containers	378
<b>Language Add-Ons</b>	<b>378</b>
<b>Language Packs</b>	<b>378</b>
Language Pack Manifest File	379
Packaging Language Packs	381
Installing Language Packs	383
<b>Summary</b>	<b>386</b>
<b>Appendix A: Resources</b>	<b>387</b>
<b>Appendix B: Frequently Asked Questions</b>	<b>391</b>
<b>Appendix C: System Message Tokens</b>	<b>395</b>
<b>Index</b>	<b>401</b>

