

Table Of Contents

SECTION I: SETTING UP THE FRAMEWORK

1. INTRODUCTION TO PHP AS A PROGRAMMING LANGUAGE	1
THE CURRENT SCENARIO.....	1
The Working Of This Framework.....	4
The Server Side Architecture Decomposed.....	5
OVERVIEW OF PHP	5
PHP Origin.....	6
PHP Revision History	7
PHP/FI 2.0.....	7
PHP 3	7
PHP 4	7
PHP 5	8
Object Oriented Support.....	9
Improved MySQL Extension	9
Flat File Database, SQLite	10
PDO Extension.....	10
Error Handling With Exceptions	10
XML Tools.....	11
SOAP (Simple Object Access Protocol) Implementation	11
Iterators.....	11
Code Introspection Using Reflection Classes.....	11
Compliant HTML.....	12
Command-line Processing.....	12
Benefits In Running PHP As A Server Side Script	12
Drawbacks In Running PHP As A Server Side Script.....	12
What Is A PHP File?	13
Why PHP?	13
ZEND AND PHP	14
2. INSTALLING A WEB SERVER.....	15
INTERNET INFORMATION SERVER	16
Features Of Internet Information Services (IIS).....	16
The IIS Installation Process.....	18
Testing IIS	25
APACHE.....	26
Downloading Apache2	26
The Apache2 Installation Process On Windows	27
The Apache2 Installation Process On Linux	29
Disabling Or Erasing An Older Version If It Exists.....	29
Disabling An Older Version Of Apache.....	30
Erasing An Older Version Of Apache.....	30

Installing The New Version From Source	30
The Configure Command	31
The Make Command	33
The Make Install Command	33
Testing Apache2	34
Testing Apache2 On Windows	34
Testing Apache2 On Linux	34
The Directory Tree Structure Of Apache.....	35
Configuring Apache Web Server.....	37
Restarting Apache2.....	38
In Windows.....	38
In Linux	38
Automatic Startup of Apache On Linux	38
3. SETTING UP AND CONFIGURING PHP TO WORK UNDER APACHE AND IIS.....	40
DOWNLOADING PHP	40
Downloading PHP For Windows	41
Downloading PHP For Linux	42
THE PHP INSTALLATION PROCESS.....	44
PHP / IIS On M.S. Windows	44
PHP / Apache Installation.....	54
PHP Installation On Windows.....	54
PHP Installation On Linux.....	57
Erasing An Older Version.....	57
Installing PHP From Its Source File	59
The Configure Command	60
The Make Command	62
The Make Install Command	62
Binding The PHP Installation With Apache2	63
4. TESTING THE PHP / WEB SERVER SETUP.....	66
TESTING THE PHP / IIS SETUP	66
Stopping And Starting IIS Via The XP Services Interface	66
Stopping And Starting IIS Via The Command Prompt	67
Testing The PHP Installation.....	68
TESTING THE PHP / APACHE SETUP	69
Testing PHP / Apache On Windows.....	69
Testing PHP / Apache On Linux	70
SECTION II: PHP LANGUAGE BASICS	
5. PHP & HTML.....	72
GETTING STARTED	78
Writing PHP	78
Naming Files.....	78
Comments.....	78

TABLE OF CONTENTS

The Semicolon.....	79
Delivering Text As Output.....	80
White Space.....	80
Running The PHP Script - MyFirst.php.....	81
6. THE BASICS OF PHP.....	82
DATA TYPES.....	82
VARIABLES.....	83
Numbers.....	85
Strings.....	85
Joining Strings.....	88
Variable Scope.....	88
Variable Variables.....	92
PHP Superglobals.....	93
CONSTANTS.....	94
HERE DOCUMENTS.....	96
OPERATORS.....	98
Unary Operators.....	98
Negation Operators.....	98
Increment / Decrement Operators.....	99
Cast Operators.....	100
Binary Operators.....	101
Numeric Operators.....	101
Assignment Operators.....	102
Concatenation Operators.....	104
Comparison Operators.....	104
Logical Operators.....	105
Bitwise Operators.....	106
Ternary Operators.....	107
Operator Precedence.....	107
References.....	108
ARRAYS.....	111
CONDITIONAL STATEMENTS.....	113
The if Statement.....	114
Executing Multiple Statements.....	115
The elseif Clause.....	117
The switch Statement.....	120
ITERATIONS.....	123
Looping.....	123
The for loop.....	124
The while loop.....	126
Controlling An Array Using A WHILE Loop.....	128
The do...while Statement.....	130
The foreach loop.....	131
Infinite loops.....	134
Special Loop Keywords.....	135

Loops Within Loops	136
Mixed-Mode Processing	140
HANDS ON EXERCISES	141
7. FUNCTIONS.....	143
USER-DEFINED FUNCTIONS	144
Functions With Arguments	145
Functions With Multiple Arguments	145
Functions Accepting And Returning Values By Reference.....	147
Functions Accepting And Returning Values By Value	149
Accessing Global Variables Within A Function.....	150
Globalizing Functions.....	151
Functions In Files	152
Recursion.....	153
Anonymous Functions.....	155
BUILT-IN FUNCTIONS.....	156
print().....	156
include().....	156
header().....	157
phpinfo().....	158
PHP SERVER VARIABLES	159
Functions For Variables.....	163
Controlling Script Execution	166
Array Functions	169
WORKING WITH DATE AND TIME.....	175
The date() Function.....	175
The time() Function	177
Converting From A String.....	178
Converting From Components.....	181
PERFORMING MATHEMATICAL OPERATIONS.....	182
Rounding Up A Number.....	182
Randomization.....	184
Other Mathematical Conversion Functions	186
Mathematical Constants.....	188
WORKING WITH STRING FUNCTIONS.....	188
Extracting Part Of A String	189
Finding A String Within A String.....	190
Returning The First Occurrence Of A String.....	192
Replacing Parts Of A String	193
Converting To And From ASCII	194
Measuring Strings.....	195
Trimming Whitespace	197
Wrapping Lines In Text Messages	199
Changing String Case	200
Secure Data Hash.....	201
Printing Number Formats	204

TABLE OF CONTENTS

String Padding	205
Complex String Printing	206
Pausing Script Execution	208
HANDS ON EXERCISE	210
8. WORKING WITH FORMS.....	211
Introducing HTML Form Tags And Elements	212
The Main <FORM> Tag	212
FORM ELEMENTS	213
Text Box	213
Text Area	214
Password	214
Radio Button	215
Checkbox	216
The Combo Box Or Drop Down List Box	216
Hidden Field	217
Image	218
SUBMIT And RESET Buttons	218
ADDING ELEMENTS TO A FORM	219
Adding A TextBox	220
Adding Radio Buttons	222
Adding Check Boxes	223
Adding A Select Box	225
Adding A Password Field	228
Adding A Text Area	230
Adding A SUBMIT And RESET BUTTON	233
Adding A Hidden Field	236
Converting PublisherMaster.html To PublisherMaster.php	239
Running PublisherMaster.php At The Web Server	245
Preventing Forms Being Automatically Submitted To A Web Server	248
Automatically Selecting The Contents Of Text Boxes	249
UPLOADING FILES TO THE WEB SERVER USING PHP	250
The move_uploaded_file() Function	253
BUILDING A CHALLENGE AND RESPONSE SUBSYSTEM	254
Creating A Login Form	255
Understanding The Functionality Of The FORM Attribute METHOD	258
What Happens At The Web Server	259
The login.php Form In Action	261
HANDS ON EXERCISES	267
9. REGULAR EXPRESSIONS	269
Regular Expression Engine	269
Common Uses Of Regular Expressions	270
Types Of Regular Expressions	270
Regular Expression Functions	271

Symbols Used In Regular Expressions.....	272
Using ^ and \$.....	272
Using *, + and ?.....	272
Using Bounds {}.....	273
Using Quantifiers.....	273
Using The OR Operator.....	273
Using . The Period.....	274
Using [] Bracket Expressions.....	274
Using Regular Expression Functions.....	274
HANDS ON EXERCISES.....	299
10. DEBUGGING AND ERRORS.....	301
GOOD PROGRAMMING PRACTICES.....	301
Visual Examination Of Code Spec.....	301
Coding Style.....	302
To Improve Code Spec Readability.....	302
Commenting Code Spec.....	303
Meaningful Variable Names.....	303
Functions.....	304
PHP Code Block Indicators.....	304
ERROR HANDLING IN PHP.....	305
Displaying Errors.....	305
Type Of Errors.....	306
Syntax Or Parse Errors.....	307
Fatal Errors.....	309
Warnings.....	310
Notices.....	311
Logical Errors.....	312
Environmental Errors.....	314
Runtime Errors.....	315
Core Errors.....	316
Compile Errors.....	316
User Defined Errors.....	317
Error Levels In PHP.....	317
Setting Error Reporting Level Via php.ini.....	318
Setting Error Reporting Level Via error_reporting().....	319
Logging Errors.....	323
What Is A Log?.....	323
Using error_log().....	323
Using php.ini File To Set Error Log File Path.....	325
Logging Errors To A File.....	325
Logging Errors Via Syslog.....	328
Using trigger_error().....	330
Ignoring Errors.....	331

TABLE OF CONTENTS

Acting On Errors / Exceptions	333
Try Block.....	333
Catch Block.....	334
Throw Statement	334
SOLUTIONS TO HANDS ON EXERCISES	338

SECTION III: DATABASE DRIVEN PROGRAMMING

11. MySQL IN ACTION.....	354
INTRODUCTION.....	354
DOWNLOADING MySQL	355
Downloading MySQL For Windows	356
Downloading MySQL For Linux	358
INSTALLING MySQL.....	360
Installing MySQL On Windows.....	360
Starting The MySQL Command Line Client On Windows.....	371
Database Storage Engines Available Under MySQL On Windows	372
Uninstalling MySQL On Windows	373
Installing MySQL On Linux	376
Determine The Current MySQL Version	376
Using The Add/Remove Applications Tool.....	378
Using Linux Command Line To Uninstall MySQL	380
Installing MySQL On Linux Using RPMs	382
MySQL Database - Engine Install Process.....	384
MySQL Database - Interactive Character Based - Client Install	386
MySQL Database - Devel Install.....	388
MySQL Database - Bench Install.....	388
MySQL Database - Embedded Install	389
MySQL Database - Max Install.....	389
MySQL Database - Shared Install	390
MySQL Database - Shared-Compat Install	390
Uninstalling MySQL On Linux.....	394
CHANGING THE DEFAULT DATABASE STORAGE ENGINE.....	395
On A Windows Box	396
On A Linux Box	397
INTERACTION BETWEEN PHP AND MySQL	398
The PHP MySQL Architecture	399
The PHP API.....	400
Getting Started.....	402
Creating MySQL DB Table.....	402
Connecting To The MySQL Db Engine.....	403
Selecting The Database	404
Executing Commands.....	406
Inserting Data Into AuthorMaster.....	407
Extracting Data From AuthorMaster	408

Updating Data In AuthorMaster	412
Deleting Data From AuthorMaster	413
Closing The Database Connection.....	413
DEMONSTRATING PHP AND MySQL INTERACTION USING A FORM.....	414
Skeleton Of The Code Spec	416
The AuthorMaster Form Code Spec	422
dosql.php Which Processes The Output Of The HTML Form	432
Connecting To The MySQL DB.....	432
Inserting Data Into AuthorMaster	433
Updating Data In AuthorMaster	435
Deleting Data From AuthorMaster	436
Logic Flow Of The AuthorMaster.php Code Spec	438
HANDS ON EXERCISES	441
12. MySQLi IN ACTION	443
WHY MySQLi	443
The PHP API	444
GETTING STARTED	446
Creating MySQL DB Table.....	446
Connecting To A MySQL Database Engine Running In Memory	447
Selecting The Database.....	449
Executing Commands.....	452
Inserting Data Into AuthorMaster	454
Extracting Data From AuthorMaster	455
Updating Data In AuthorMaster	461
Deleting Data From AuthorMaster	462
Freeing Up The ResultSet.....	463
Closing The Database Connection.....	464
DEMONSTRATING PHP AND MySQLi INTERACTION USING A FORM	465
The AuthorMaster Form Code Spec	468
dosql.php Which Processes The Output Of The HTML Form	472
Connecting To The MySQL DB.....	472
Inserting Data Into AuthorMaster	473
Updating Data In AuthorMaster	474
Deleting Data From AuthorMaster	476
HANDS ON EXERCISES	478
13. ORACLE IN ACTION	480
INTRODUCTION	480
DOWNLOADING ORACLE.....	481
Downloading Oracle For Windows	481
Downloading Oracle For Linux	482
INSTALLATION OF ORACLE DATABASE 10g	482
INTERACTION BETWEEN PHP AND ORACLE.....	483
The PHP Oracle Architecture	483
The PHP API	484

TABLE OF CONTENTS

Getting Started.....	485
Logging In As A System DBA.....	486
Creating A TableSpace.....	487
Creating And Binding A User To The Tablespace.....	487
Assigning Privileges To The User Bound To The Tablespace.....	488
Logging in	488
Creating An Oracle Db Table.....	489
Connecting To The Database	490
Executing Commands.....	492
Inserting Data Into AuthorMaster.....	496
Extracting Data From AuthorMaster.....	497
Updating Data In AuthorMaster.....	499
Deleting Data From AuthorMaster.....	500
Closing The Database Connection	501
DEMONSTRATING PHP AND ORACLE INTERACTION USING A FORM.....	501
The AuthorMaster Form Code Spec.....	504
dosql.php Which Processes The Output Of The HTML Form.....	508
Connecting To The Oracle DB.....	508
Inserting Data Into AuthorMaster.....	509
Updating Data In AuthorMaster.....	510
Deleting Data From AuthorMaster.....	512
HANDS ON EXERCISES	514
14. SQLite-A SelfCONTAINED, EMBEDDABLE, ZeroCONFIGURATION DATABASE	516
SITUATIONS WHERE SQLite WORKS WELL.....	517
FEATURES OF SQLite	519
DOWNLOADING SQLite.....	521
Downloading SQLite For Windows.....	522
Downloading SQLite For Linux.....	523
INSTALLING SQLite.....	524
Installing SQLite On Windows	524
Starting The SQLite Application On Windows.....	524
Installing SQLite On Linux	525
The Configure Command.....	527
The Make Command	528
The Make Install Command.....	528
Starting The SQLite Application On Linux.....	528
INTERACTION BETWEEN PHP AND SQLite.....	529
The PHP SQLite Architecture.....	530
The PHP API.....	531
Getting Started.....	532
Logging In And Creating A .db File.....	533
Creating A Table	533
Viewing Tables In SQLite.....	535
Inserting Records In A Table	535
Viewing Records In A Table.....	536

Connecting To The Database.....	536
Executing Commands.....	537
Inserting Data Into AuthorMaster.....	539
Extracting Data From AuthorMaster.....	541
Updating Data In AuthorMaster.....	545
Deleting Data From AuthorMaster.....	546
Closing The Database Handle.....	547
DEMONSTRATING PHP AND SQLite INTERACTION USING A FORM.....	548
The AuthorMaster Form Code Spec.....	550
dosql.php Which Processes The Output From The HTML Form.....	554
Connecting To The SQLite DB.....	554
Inserting Data Into SQLite Db Table.....	555
Updating Data In AuthorMaster.....	556
Deleting Data From AuthorMaster.....	558
HANDS ON EXERCISES.....	559
15. THE ODBC API.....	561
INTERACTION BETWEEN PHP AND DATABASE USING ODBC.....	561
The PHP Database With ODBC API Architecture.....	562
The PHP API.....	563
Creating An ODBC Data Source Name (DSN).....	563
GETTING STARTED.....	567
Connecting To The Database.....	567
Executing Commands.....	569
Inserting Data Into AuthorMaster.....	571
Extracting Data From AuthorMaster.....	572
Updating Data In AuthorMaster.....	576
Deleting Data From AuthorMaster.....	577
Closing The Database Connection.....	578
DEMONSTRATING PHP AND DB INTERACTION VIA ODBC USING AN HTML FORM.....	579
The AuthorMaster Form Code Spec.....	581
dosql.php Which Processes The Output From The HTML Form.....	585
Connecting To The DB.....	586
Inserting Data Into AuthorMaster.....	586
Updating Data In AuthorMaster.....	588
Deleting Data From AuthorMaster.....	590
HANDS ON EXERCISES.....	593
SOLUTIONS TO HANDS ON EXERCISES.....	595
 SECTION IV: THE BASICS OF OBJECT ORIENTED PROGRAMMING	
16. OBJECT ORIENTED PROGRAMMING.....	661
BASIC UNDERSTANDING.....	661
Objects.....	661
Defining A Class.....	662

TABLE OF CONTENTS

INSTANTIATION AND ACCESSING METHODS AND PROPERTIES	664
CONSTRUCTORS	665
DESTRUCTORS	666
CLASS CONSTANTS	668
\$this KEYWORD	669
SCOPE RESOLUTION OPERATOR (::).....	670
self AND parent KEYWORDS	670
EXTENDING A CLASS.....	671
CLASS ABSTRACTION.....	673
OBJECT INTERFACES	674
implements Keyword	675
instanceof Operator	676
OBJECT CLONING	676
OBJECT COMPARISON	678
final KEYWORD	680
final Methods.....	681
final Class.....	681
MAGIC METHODS	682
__sleep and __wakeup Methods.....	682
17. OBJECT ORIENTED PROGRAMMING WITH MYSQL DB	684
SECTION V: ADVANCED TECHNIQUES	
18. CREATING HTML FORMS ON THE FLY.....	715
THE CONCEPTUAL APPROACH TO DYNAMIC FORM GENERATION.....	716
THE PRACTICAL APPROACH TO DYNAMIC FORM GENERATION.....	718
The MasterPage.php Code Spec.....	725
Logic Flow Of The MasterPage.php Code Spec	740
The MasterPage Processing File (dosql.php) Code Spec	744
Connecting To The MySQL DB	744
Inserting Data Into A MySQL Db Table	745
Updating Data In MySQL Db Table	747
Deleting Data From MySQL Db Table	750
The Runtime.....	752
A Front End To Insert Data In The DynPgGen Db.....	754
The Front End Demonstration.....	754
Invoking The BookMaster Form	760
19. BLOGS.....	762
DOWNLOADING b2evolution	763
CREATING THE MySQL DATABASE AND USER FOR b2evolution	764
Creating A Database Under MySQL.....	764
Creating A User Under MySQL.....	765
Changes Required In The MySQL Configuration File.....	765
b2evolution INSTALLATION	767

GETTING STARTED WITH b2evolution.....	773
Login As Administrator.....	774
Logging Out.....	776
Changing The Password For admin.....	776
Adding New User.....	778
Authorizing The New User.....	780
Deleting A User.....	783
Allowing Users To Register Themselves.....	785
WORKING WITH BLOGS.....	786
Editing Existing Blogs.....	786
Viewing The Blog.....	789
Creating A New Blog.....	790
Deleting A Blog.....	790
POSTING CONTENTS TO A BLOG.....	792
Editing Existing Post.....	792
Creating A Post.....	795
Deleting A Post.....	796
20. FORUMS.....	798
WHAT IS A FORUM.....	798
Crafting A Forum's Infrastructure.....	798
Section One - The Forum's User Interface.....	798
Section Two - Program Code Spec.....	799
Section Three - A Data Store.....	799
USING A FORUM.....	799
Forum Threading.....	799
Forum Multithreading.....	799
Forum Housekeeping.....	800
The Forum Administrator.....	800
Forum Users.....	800
Forum Software.....	801
INSTALLING THE SIMPLE MACHINE FORUM ON WINDOWS XP PROFESSIONAL.....	802
The Framework That SMF Requires To Run On.....	803
CREATING A MySQL DATABASE TO HOLD SMF RESOURCES.....	803
Creating The SMF Database.....	804
Creating The MySQL User smf.....	804
Changes Required In The MySQL Configuration File.....	805
INSTALLING SMF ON THE ABOVE FRAMEWORK.....	807
Resolving The Error.....	811
The User's Perspective.....	814
Registering With The Forum.....	815
Logging Into The Forum.....	816
On Successful Login.....	817
ADMINISTERING THE FORUM.....	818

TABLE OF CONTENTS

21. COOKIES AND SESSIONS.....	822
AN INTRODUCTION TO COOKIES.....	822
Marking Of The Browser By The Web Server.....	822
The Contents Of A Cookie.....	823
Different Types Of Cookies	824
Permanent / Persistent Cookies	824
Session / Transient Cookies.....	824
Where Cookies Are Used.....	824
Where Are Cookies Placed.....	825
Understanding How Cookies Are Used.....	827
Yahoo.com And Cookies.....	828
Advantages Of Cookies.....	832
CREATING COOKIES USING PHP	832
Domain Information.....	832
Path Information.....	833
Expiry Information.....	833
Secure Parameter.....	833
Working With Cookies.....	833
Setting Cookies Using PHP.....	833
Destroying A Cookie.....	834
Assigning Multiple Values To A Cookie	835
Retrieving Multiple Values From A Cookie	836
AUTOMATIC LOGIN.....	838
The Focus	838
The Solution	838
The RunTime.....	844
The Working	853
AN INTRODUCTION TO SESSIONS	856
PHP Session Management Rules.....	857
The PHPSESSID Cookie.....	858
Verifying Session Support In PHP.....	858
Storing, Retrieving And Deleting Data From Session Variables	859
Storing Values In Session Variables	859
Retrieving Values From A Session Variable.....	860
Deleting Values From A Session Variable.....	861
PHP Session Functions.....	861
The session_start() Function.....	862
The session_destroy() Function.....	864
The session_id() Function	866
A MINI SHOPPING CART.....	867
The Focus	868
The Solution	869
The RunTime.....	882
The Working	890

22. USING SIMPXML	903
AN INTRODUCTION TO XML	903
Why XML?.....	903
WHAT XML DOES.....	904
XML Is Used To Exchange Data.....	904
XML Can Be Used To Share Data	904
XML Can Be Used To Store Data	904
XML Can Make Data More Useful	904
XML Can Be Used To Create New Languages.....	905
XML Can Be Used To Reduce Incompatibilities	905
DIFFERENCE BETWEEN XML AND HTML	905
SIMPXML IN PHP 5.1.....	906
GETTING STARTED.....	906
Creating A .php File Holding XML Document.....	907
Including A .php File That Holds An XML Document.....	909
Extracting Data From An XML Document	909
Extracting Data From Attributes.....	912
Comparing Elements And / Or Attributes With The Criteria	914
Using Xpath.....	916
Setting Values.....	927
READING AN EXTERNAL XML DOCUMENT	929
Modifying Data In An XML File	932
Creating An XML Document Using MySQL And PHP.....	941
23. PDO - PHP 5.1 DATA OBJECT	948
The PHP PDO API	950
Getting Started.....	952
Creating DB Table.....	952
Connecting To The Database.....	953
Closing The Database Connection.....	955
Executing Commands.....	956
Inserting Data Into AuthorMaster.....	956
Extracting Data From AuthorMaster	958
Updating Data In AuthorMaster	962
Deleting Data From AuthorMaster	963
DEMONSTRATING PHP AND MySQL INTERACTION USING A FORM.....	963
The AuthorMaster Form Code Spec	966
dosql.php Which Processes The Output Of The HTML Form	970
Connecting To The MySQL DB.....	970
Inserting Data Into MySQL Db Table	971
Updating Data In AuthorMaster	973
Deleting Data From AuthorMaster	974
HANDS ON EXERCISES	976
SOLUTIONS TO HANDS ON EXERCISES.....	978

TABLE OF CONTENTS

SECTION VI: PHP FRAMEWORKS

24. PRADO.....	992
PRADO APPLICATION AND COMPONENTS.....	992
Requirements.....	993
Downloading PRADO.....	993
Developing A Simple PRADO Application.....	996
Basic Concepts Of Programming Using PRADO	1001
Component	1001
Control.....	1001
Page.....	1001
Module	1002
Application	1002
Handler	1002
Session.....	1002
User	1002
Cache.....	1002
Request.....	1003
Parser.....	1003
Locator	1003
Error	1003
Vsmanager.....	1003
Creating A d/e Form Using PRADO.....	1003
Demonstrating AuthorMaster GUI.....	1004
Interacting With A Database Using The PRADO Framework.....	1009
Getting Started.....	1009
Creating A MySQL Table	1010
Files Used.....	1011
Connecting To The Database	1011
Establishing A Db Connection And Inserting Data Into AuthorMaster	1011
Extrecting Data From AuthorMaster.....	1013
Updating Data In AuthorMaster	1016
Deleting Data From AuthorMaster.....	1019
HANDS ON EXERCISES	1022
25. JOOMLA!.....	1024
DOWNLOADING JOOMLA!.....	1025
CREATING THE MySQL DATABASE AND USER FOR JOOMLA!.....	1025
Creating A Database Under MySQL.....	1025
Creating A User Under MySQL.....	1025
INSTALLING JOOMLA!.....	1026
BASIC PRINCIPLES.....	1032
LOGGING IN TO JOOMLA!.....	1034
GETTING STARTED.....	1035
Creating A New User In Joomla!	1035
CHANGING THE DEFAULT JOOMLA! INDEX PAGE.....	1039

EDITING CURRENT TEMPLATE CONTENT	1042
Filling In Page Audit Information	1044
Entering Main Text (Optional)	1045
Additional Special Features	1046
ADDING NEW STATIC CONTENT TO JOOMLA!	1047
Deleting A Section.....	1048
Adding A New Section.....	1048
AN APPROACH TO CREATING A JOOMLA TEMPLATE FILE.....	1051
Steps In Creating A Joomla Template	1054
Simple Concepts About index.php	1064
Creating my_template.....	1066
Setting Up The Pathway Table	1070
Setting Up The Footer Table	1070
Adding Content Tags To The Content Table.....	1073
The Left Most Cell.....	1073
The Right Most Cell	1073
INSTALLING TEMPLATES INTO JOOMLA!.....	1074
26. PEAR::DB.....	1078
INSTALLING PEAR	1079
On Linux.....	1079
On Windows.....	1080
Getting Started.....	1086
Creating DB Table.....	1086
Connecting To The Database.....	1087
Closing The Database Connection.....	1090
Executing Commands.....	1090
Inserting Data Into AuthorMaster	1091
Extracting Data From AuthorMaster	1092
Updating Data In AuthorMaster	1095
Deleting data From AuthorMaster	1096
DEMONSTRATING PHP AND MySQL INTERACTION USING A FORM.....	1097
The AuthorMaster Form Code Spec	1099
dosql.php Which Processes The Output Of The HTML Form	1103
Connecting To The MySQL DB.....	1103
Inserting Data Into AuthorMaster.....	1104
Updating Data In AuthorMaster	1106
Deleting Data From AuthorMaster	1107
HANDS ON EXERCISES	1109
SOLUTIONS TO HANDS ON EXERCISES.....	1111

TABLE OF CONTENTS

SECTION VII: PHP GRAPHICAL IDE'S

27. PHP DESIGNER 2005	1133
DOWNLOADING PHP DESIGNER 2005	1134
UNDERSTANDING THE PHP DESIGNER 2005 FRONT END	1138
The Menu Bar	1139
The File Menu	1139
The Edit Menu	1143
The Search Menu	1146
The View Menu	1148
The Format Menu	1152
The HTML Menu	1154
The PHP Menu	1161
Add-Ins	1169
The Run Menu	1172
The Options menu	1172
The Window menu	1174
The Help Menu	1175
The Task Panel	1176
The File browser	1176
The Project Manager	1177
Snippets	1177
FTP	1178
Tool Panels	1179
Document	1180
Libraries	1180
Tags	1181
Characters	1181
Date	1182
CREATING A PROJECT USING PHP DESIGNER 2005	1182
Adding A Folder	1184
Creating PHP Files	1185
Debugging A File	1187

SECTION VIII: APPENDIX

A. INTRODUCTION TO ASYNCHRONOUS JAVASCRIPT AND XML (AJAX)	1189
Asynchronous	1189
JavaScript	1189
XML	1190
HOW AJAX WORKS	1190
Ajax Support	1193
ADVANTAGES AND DISADVANTAGES OF AJAX	1193
AJAX APPLICATION	1195

GETTING STARTED	1195
Creating An Object	1195
Object Methods	1197
Object Properties	1197
Declaring A Listener	1198
Making A Request	1198
The open() Method	1198
The send() Method	1199
Defining The Listener	1200
Processing Server Response	1201
Putting All Together	1202
The Focus	1202
The Code Spec	1202
The Output	1204
The Logic Flow	1205
USING AJAX WITH A DATABASE	1206
The Focus	1206
The Code Spec	1206
The Output	1213
The Logic Flow	1214