

Contents at a Glance

<i>Introduction</i>	<i>xvii</i>
Chapter 1: Introducing PHP	1
Chapter 2: Planning Your Project	25
Chapter 3: Building a Database Schema with MySQL	39
Chapter 4: Building a Website Template with PHP	67
Chapter 5: Creating a Website Membership System	85
Chapter 6: Developing a Website News System	145
Chapter 7: Enhancing Your Website with Web Services and APIs	203
Chapter 8: Creating a Shopping Cart System	229
Chapter 9: Processing Payments for Your Website	275
Chapter 10: Tracking Website Statistics	315
Chapter 11: Using Third-Party PHP Scripts	333
Chapter 12: Closing Statements	351
Appendix A: PHP Reference	357
Appendix B: MySQL Syntax Reference	375
<i>Index</i>	<i>395</i>

Contents

Introduction

xvii

Chapter 1	Introducing PHP	1
	Getting a History Lesson in PHP	2
	Understanding the Requirements for PHP	3
	Operating System Support	3
	Web Server Support	4
	Exploring PHP-Related Software	4
	MySQL Database Management Tools	4
	PHP Editors	5
	Working with PHP	5
	Writing Your First PHP Script	6
	Working with Strings and Variables	8
	Working with PHP Functions	15
	Error Handling and Trapping	21
	Using Output Buffering	22
	What's Next?	23
Chapter 2	Planning Your Project	25
	Getting the Most from Your Idea	26
	Brainstorming Details for an Idea	27
	Researching Concepts	28
	Planning and Information Gathering	29
	Planning a Website Layout, Sections, and Features	30
	Planning a MySQL Database	30
	Planning for a Target Audience	31
	Setting Up the Project Logistics	32
	PHP Developers	32
	Graphic Artists	32
	Server Administrators	33

	Project Managers/Team Coordinators	35
	What's Best for You?	35
	Considering the Hardware Requirements	36
	What's Next?	37
Chapter 3	Building a Database Schema with MySQL	39
	Understanding MySQL	40
	MySQL Table Types	40
	MySQL Column Types	41
	What Is ADOdb?	42
	Using MySQL Database Tools	43
	Using phpMyAdmin: Web-Based MySQL Administration	43
	SQLyog MySQL Manager for Windows	57
	Connecting to MySQL Databases with PHP	63
	Persistent and Nonpersistent MySQL Connections	64
	Making the Connection	64
	What's Next?	66
Chapter 4	Building a Website Template with PHP	67
	Designing Your Layout	68
	Creating the HTML	69
	Creating the PHP Code	71
	Using the layout.php File	73
	Introducing Classes	75
	Creating the Basic Class Structure	75
	Creating the META Content Class	77
	Using the Meta Content Class	81
	What's Next?	84
Chapter 5	Creating a Website Membership System	85
	Preparing the Membership System	86
	Creating the common.php File	86
	Including a Welcome Message HTML File	87
	Securing Web Directories	88
	Setting Up the Membership System Database Tables	89
	Creating a Membership Signup Script	90

Creating the HTML Signup Form	90	
Creating the join.php Script Structure	93	
Processing the Form Information	94	
Inserting the Members' Data into the MySQL Database	106	
Sending E-mail with PHP	107	
Displaying Success Message After Signup	113	
Verifying the User's E-mail Address	114	
Looking at the join.php File Summary	118	
Creating the Login System	123	
Starting PHP Sessions	123	
Creating the Login Verification Script	124	
Creating a Lost Password Script	130	
Creating the Membership Hyperlinks Box	137	
Granting Member-Only Access	141	
Logging Out	142	
What's Next?	144	
Chapter 6	Developing a Website News System	145
Planning the News System	146	
Preparing the Website Administrator Access	146	
Preparing the MySQL Database	147	
Creating the News Article Category Management System	148	
Creating the News Article Category Insert Script	148	
Creating the News Article Category Update and Delete Script	154	
Creating the News Article Category Administrator Hyperlinks	161	
Testing the News Article Category Management System	163	
Creating the News Article Management System	166	
Creating the News Article Insert Script	166	
Creating the News Article Modify and Delete Script	172	
Testing the News Article Management System	182	
Creating the News Article Index Include File	186	
Creating the Read Full Articles Script	192	
Creating a Hyperlinks Box	198	
Challenge: Create a News Article Comment System	200	
Adding News Feeds	200	
What's Next?	201	

Chapter 7	Enhancing Your Website with Web Services and APIs	203
	Working with Web Services	204
	Using Google Language Translation Services	204
	Using the Google Search Engine in Your Website	208
	Working with APIs	214
	Amazon Web Services API Made Simple	214
	What's Next?	228
Chapter 8	Creating a Shopping Cart System	229
	Planning Your Shopping Cart	230
	Preparing the Code for Your Shopping Cart	231
	Creating a Simple Storefront	234
	Making a Shopping Cart Class	238
	Shopping Cart Class: get_cart_id Function	241
	Shopping Cart Class: cart_add Function	242
	Shopping Cart Class: empty_cart Function	246
	Building the Shopping Cart Interface: cart.php	246
	Shopping Cart Interface: cart.php Initialization	251
	Shopping Cart Interface: cart.php add case	251
	Shopping Cart Interface: cart.php default case	252
	Shopping Cart Interface: cart.php update case	257
	Shopping Cart Interface: cart.php remove case	259
	Shopping Cart Interface: cart.php empty_confirm case	260
	Shopping Cart Interface: cart.php empty case	261
	Building the Shopping Cart Interface: checkout.php	261
	Providing a Shopping Cart Side Box	268
	Testing Your Shopping Cart System	270
	Creating a Products Catalog Hyperlink	273
	What's Next?	274
Chapter 9	Processing Payments for Your Website	275
	Merchant Account Gateways vs. Third-Party Payment Solutions	276
	What Is a Merchant Account Gateway?	276
	What Is a Third-Party Payment Solution?	278
	What's the Major Difference?	279
	Preparing Your Site for E-Commerce	281

Creating the Payment Processing Scripts	282	
Processing Payments with VeriSign Payflow Pro	284	
Processing Payments with PayPal	296	
Completing the Order: ordercomplete.php	300	
Testing the Payment Systems	306	
Testing the VeriSign Scripts	306	
Testing PayPal Payment Scripts	309	
Utilizing Curl to Process Payments	309	
Customizing This Project	312	
What's Next?	313	
Chapter 10	Tracking Website Statistics	315
<hr/>		
Creating Custom Tracking with PHP and MySQL	316	
Setting a PHP Sessions Counter	316	
Tracking the Number of Users and Visitors Online	318	
Tracking Search Engine Spiders	325	
Creating a Quick Stats Box	329	
Using Web Analyzing Software	330	
Using Webalizer	331	
Using Urchin	331	
Monitoring Your Website with Alexa	332	
What's Next?	332	
Chapter 11	Using Third-Party PHP Scripts	333
<hr/>		
Exploring Some Great Third-Party PHP Scripts	334	
Using the phpAdsNew Advertisement System	334	
Using the phpBB Bulletin Board System	340	
Using the PowerPhlogger Statistics Tracking Script	345	
Using the MyNewsGroups News Client	347	
Finding Third-Party PHP Scripts	350	
What's Next?	350	
Chapter 12	Closing Statements	351
<hr/>		
It Gets in Your Blood	352	
Getting Support	352	
PHP Support Sites	353	

	PHP Manual	355
	Live Support	355
	PHP Frequently Asked Questions (FAQ)	355
	Contributing to PHP	356
	Keep On 'Truckin'	356
Appendix A	PHP Reference	357
	Popular PHP Functions	358
	Array Functions	358
	Date and Time Functions	360
	File Handling Functions	362
	MySQL Database Functions	363
	String Manipulation Functions	365
	System Configuration Functions	366
	System Execution Functions	366
	Text Formatting Functions	366
	Control Structures	367
	PHP Superglobals	369
	Superglobal: \$_SERVER	369
	Other Superglobals	371
	Operators	372
	Arithmetic Operators	372
	Assignment Operators	372
	Comparison Operators	372
	Error Control Operator	373
	Incrementing Operators	373
	Logical Operators	374
	String Operators	374
Appendix B	MySQL Syntax Reference	375
	ALTER	376
	ANALYZE TABLE	377
	BACKUP TABLE	377
	BEGIN	378
	CHECK TABLE	378
	COMMIT	378

CREATE	378
DELETE	381
DESC	382
DESCRIBE	382
DO	382
DROP	382
EXPLAIN	382
FLUSH	383
GRANT	383
INSERT	384
JOIN	385
KILL	385
LOAD DATA INFILE	386
LOCK TABLES	387
OPTIMIZE	387
RENAME	387
REPAIR TABLE	387
REPLACE	388
RESET	388
RESTORE TABLE	388
REVOKE	388
ROLLBACK	388
SELECT	389
SET	391
SET TRANSACTION	393
SHOW	393
TRUNCATE	393
UNION	393
UNLOCK TABLES	394
UPDATE	394
USE	394
<i>Index</i>	395