

Contents

Introduction	xv
Chapter 1: Welcome to the MVC World	1
What's Model-View-Controller?	5
Why Bother with MVC?	6
A Brief History of MVC	7
Comparing PHP MVC Frameworks	10
Making Life Easier for the Developer	10
Models	10
Views	12
Helpers and Libraries	12
Revisiting the Opening Example	12
First Things First: The Model	13
Creating the Controller	14
Creating the View	16
A Slightly Different Approach: Templates	18
Modifying the Controller	19
Modifying the View	20
What about <code>{bodycopy}</code> ?	20
Conclusion	22
Chapter 2: Agile Methodologies and Approaches	23
What Is Agile?	23
Post-Agilism	25
Notable Agile Methodologies	26
Scrum	26
XP	28
Modifying Scrum and XP	28
Gather Your Requirements While You May	29
The First Day	29
Assimilating What You've Learned	34
The Second Day	36
Revisiting the Product Backlog	40
Creating a Sprint Backlog	42
Conclusion	43

Chapter 3: A 10,000-Foot View of CodeIgniter	45
Downloading CodeIgniter	45
CodeIgniter at a Glance	47
The system/Folder	48
The system/application Folder	49
Initial Configuration	49
config.php	50
database.php	51
autoload.php	52
routes.php	53
CodeIgniter Libraries	53
The Database Library	55
The Session Library	59
CodeIgniter Helpers	60
The Form Helper	62
The URL Helper	63
Creating Models, Views, and Controllers	64
Models and Database Tables	64
Controllers	68
Views	70
Uploading Your Files	74
Conclusion	75
Chapter 4: Creating the Main Web Site	77
Displaying the Home Page	81
Retrieving the Main Featured Product	82
Retrieving Random Products for the Sidebar	83
Using the New Model Functions on the Home Page	84
Creating the Home Page View	85
Displaying Product Categories	89
Creating New Model Functions	92
Building out the <code>cat()</code> Controller Function	93
Creating the Category View	93
Displaying Product Details	98
Updating the MProducts Model	99
Building the <code>product()</code> Controller Function	99
Creating the Product View	100
Displaying Search Results	101
What about the Shopping Cart?	104
Revisiting the Sprint Backlog	104
Conclusion	105

Chapter 5: Building a Shopping Cart	107
Displaying the Shopping Cart	107
First Things First	109
Adding Products to a Shopping Cart	109
Adding the View Cart Link to the Navigation	113
Displaying the Shopping Cart to the User	114
Adding a Delete Function to the Shopping Cart	120
Revisiting the Sprint Backlog	124
Meeting with Claudia	125
Polishing the Look and Feel	127
Uploading the Logo	127
Updating the CSS	127
Fixing the Header	130
Fixing the Side Navigation	133
Placing the Add to Cart Links	137
Cleaning up Thumbnail and Text Positioning	138
Conclusion	142
Chapter 6: Creating a Dashboard	145
Gathering Requirements	145
Creating a Sprint Backlog	147
Creating a Rudimentary Admin Framework	147
Using Folders to Organize Controllers	148
Creating the Login Mechanism	149
Creating the Home Page of the Admin Panel	153
Creating the Category Management Tools	160
Creating the Product Management Tools	169
Creating the User Management Tools	178
Revisiting the Sprint Backlog	186
Conclusion	186
Chapter 7: Improving the Dashboard	189
Batch Mode Operations	189
Importing and Exporting	194
Creating an Export Function for Categories	194
Creating an Export Function for Products	196
Importing a CSV Import Library for Products	197
The Client Review	204
Reassigning Products from Deleted Categories	206

Contents

Reworking Colors and Sizes for Products	210
Creating New Database Tables	210
Deleting References to Legacy Colors and Sizes	211
Creating New Models	211
Creating Admin Screens for Colors	212
Creating Admin Screens for Sizes	220
Adding Color and Size Checkboxes to Products	225
Displaying Color and Size Information on Public Pages	230
Revisiting the Sprint Backlog	232
Conclusion	233
Chapter 8: Last-Minute Upgrades	235
Meeting with the Client	235
Creating a Page Manager	237
Creating the Database Table	237
Creating the Model	238
Creating the Admin/Pages Controller	240
Creating the Administrative Views	242
Choosing and Integrating a WYSIWYG Editor	248
Updating the Welcome Controller	249
Creating a Newsletter Tool	250
Creating the Database Table and Model	251
Adding a <code>subscribe()</code> Function	252
Creating the Form	253
Creating Administrative Screens	254
Meeting with the Client	265
Conclusion	266
Chapter 9: Security and Performance	267
Security	267
Filtering User Input	268
Encrypting Sessions	285
Additional Security Resources	286
Performance	286
Profiling	286
Benchmarking	290
Conclusion	293

Chapter 10: Launch	295
One Last Sanity Check of Checkout	295
Integrating Checkout	301
Last Remaining Issues	304
Debugging File Uploads	304
Detecting JavaScript and Cookie Compatibility	305
Conclusion	306
Index	307
