



Web Programming and Internet Technologies: An E-Commerce Approach, Second Edition Transition Guide

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Key Features of the Second Edition:

- **NEW** - Updated throughout to include HTML5, CSS3, JavaScript, and PHP
- **NEW** - Includes an introduction to responsive web design
- **NEW** - Includes an introduction to AJAX
- **USER FAVORITE** - Presents a real world case study in each chapter using the example of Nature's Source, a business that sells health products online.
- **USER FAVORITE** - Each chapter concludes with updated resources to test student comprehension, including Quick Questions to Test Your Basic Knowledge, Short Exercises to Improve Your Basic Understanding, Exercises on the Parallel Project, and What Else You May Want or Need to Know.
- **UPDATED** - Instructor Resources including slides in PowerPoint format, answers to the end-of-chapter questions, and an expanded Test Bank.

Every new, printed copy is packaged with a full suite of ancillary resources, including Navigate 2 Advantage Access that benefits BOTH the student and the Instructor!

Detailed List of Updates in the Second Edition:

- The first ten chapters have been completely revised to bring them up to date with HTML5 and CSS3. All files have been revised accordingly and will validate according to the W3C HTML5 and CSS3 standards (using the W3C validation sites). The new HTML5 markup from Chapter 4 onward incorporates many of the new HTML5 "semantic" tags for better page structure and some new CSS3 features for improved styling. All the figures in the text for these chapters have also been updated to reflect these changes

- The discussion of CSS now includes an introduction to the idea of "responsive" design, in which the authors make use of a "media query" to invoke a different CSS layout for website pages when a tablet-size viewport is detected
- The website structure makes improved use of the HTML base tag and SSI (Server-Side Includes) to include common parts of multiple pages from one location, thereby avoiding the "maintenance nightmare" of having to keep multiple copies of the same information up to date as the website is updated and/or modified. When the discussion of PHP arises, the SSI facility is replaced by PHP includes
- Although the textbook still uses JavaScript for some form data validation tasks, it also shows how the new HTML5 form controls can perform validation on their own, without resorting to JavaScript. Because so much on the web is a moving target and because cross-browser implementation of these new form controls is not uniform, the book also shows how the Modernizr tool can be used to determine which new HTML5 and CSS3 features have actually been implemented in your browser
- AJAX is introduced and put it to work in a simple use case on our website: refreshing the date and time in our welcome message
- All `mysql_xx()` function calls have been upgraded to use the improved `mysqli_xx()` versions. The authors still feel that the procedural approach in this context is preferable (and easier) for students coming to these ideas for the first time. In other words, if you don't already have an object-oriented mindset, this may not be the best place to develop one
- More "utility scripts" are included to illustrate some concepts in a very simple context before incorporating them into the live website (AJAX, GET vs. POST, and sessions, for example).
- Also included are some utility scripts for command-line monitoring of MySQL database tables when developing and testing the PHP interface between a website and a database
- Each directory of the website corresponding to a text chapter now has one or more "readme" files containing useful information about the files in that directory, such as brief descriptions of file content, the order in which they should be studied, or how a given file relates to others in the same location
- Student exercises on the "parallel project" now contain more detail on how to proceed with emulating the text example. This should be particularly helpful by the time the student gets to Chapter 10, which is a long chapter in which "everything comes together"
- In addition to updating the HTML, CSS and code files, the authors have also done a lot of "refactoring". That is, they have tried to improve the names of variables, the names of files, and formatting of markup and code, in order to enhance file readability, as well as to clarify file grouping and organization
- Also included is some discussion of some very useful tools for helping web developers deal with all the things that can go wrong when developing websites, such as the Web Developer toolbar and Firebug for the Firefox browser, and analogous tools for other browsers
- Better business-related images for the "rotating image" feature of the home page are included. They have better resolution and are uniformly sized so that they better fill the allotted space. Also, the product images for the online store are now simply different-colored "placeholder" images, rather than the fuzzy images of products that often did not correspond to the product descriptions (in the first edition of the text)
- The index has been expanded and improved
- Users of the text will be able to download and install their own complete copy of the Nature's Source website used as the sample website in the text, including the product and customer database necessary for the final e-store version of the site as described in Chapter 10 of the

text. For access to the web pages and programs, as well as details on how to install, please visit go.jblearning.com/Scobey2e

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