Chapter 1

Introduction to web development with PHP

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Slide 1

Objectives (continued) Knowledge 9. Describe the benefits of using an IDE like NetBeans for application development. Murach's PHP and MySQL (3rd Ed.)

Objectives

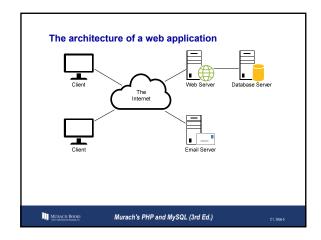
Applied

- Use the XAMPP control panel to start or stop Apache or MySQL when it is running on your own computer.
- 2. Deploy a PHP application on your own computer.
- Run a web application that's on your own computer (1) by
 entering its URL into the address bar of a browser or (2) by
 getting and using an index of the applications that are on the web
 server.
- 4. View the source code for a web page in a web browser.

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Objectives (continued)

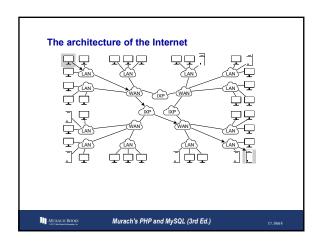
Knowledge

- 1. Describe the components of a client-server architecture.
- 2. Describe HTTP requests and responses.
- 3. Distinguish between the way a web server processes static web pages and dynamic web pages.
- 4. Explain what these software components do as a web application runs: Apache, PHP, Chrome, and MySQL.
- $5. \ \ Describe the difference between MySQL and Maria DB.$
- 6. Describe the way a PHP application is deployed on your own computer or on an Internet server.
- 7. Describe the components of an HTTP URL.
- Describe what happens if you omit one or more parts of a URL when you try to run an application or if you code a URL that specifies a directory that doesn't contain a default page.

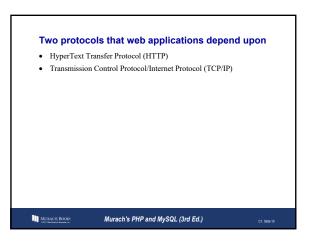
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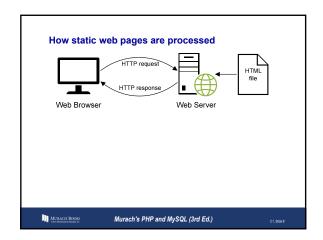
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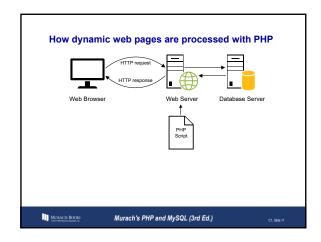
Slide 3

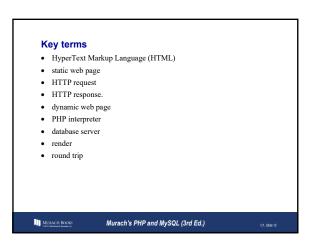


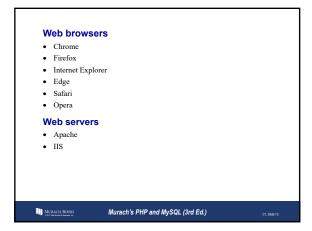
Key terms • server • client • network • router • Local Area Network (LAN) • Wide Area Network (WAN) • Internet • Internet • Internet Exchange Point (IXP) • Internet Service Provider (ISP)

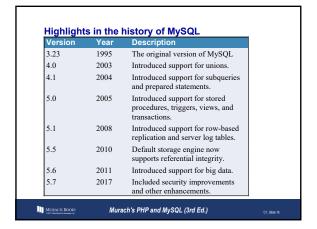




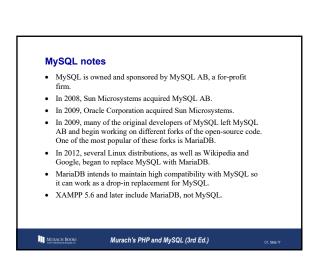


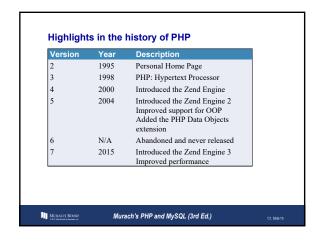


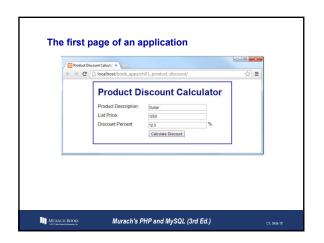


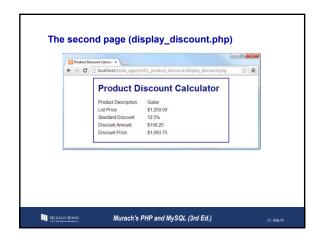


Server-side languages PHP SP ASP.NET Perl Python Database servers MySQL Oracle DB2 MS SQL Server









```
The CSS file (main.css)

body {
    font-family: Arial, Helvetica, sans-serif;
    margin: lem;
    padding: 0;
}

main {
    display: block;
    width: 450px;
    margin: 0 auto;
    padding: 1.5em;
    background: white;
    border: 2px solid navy;
}

h1 {
    color: navy;
}

label {
    width: 10em;
    padding-right: lem;
    float: left;
}

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```

```
The CSS file (main.css) (continued)

#data input (
    float: left;
    width: 15em;
    margin-bottom: .5em;
}

#data span {
    padding-left: .25em;
}

#buttons input {
    float: left;
    margin-bottom: .5em;
}

br {
    clear: left;
}

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```

```
The PHP file (display_discount.php)

Typhp

// get the data from the form

Sproduct_description = $_POST['product_description'];

$list_price = $_POST['list_price'];

$discount_percent = $_POST['discount_percent'];

// calculate the discount

$discount = $list_price * $discount_percent * .01;

$discount = $list_price * $discount_percent * .01;

$discount_price * $list_price * 5discount;

// apply currency formatting to the dollar and percent amounts

$list_price formatted = *$".number format($list_price, 2);

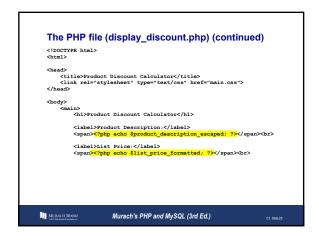
$discount_precent_formatted = "discount_percent, 1) ."*";

$discount_price_formatted = "$".number_format($discount, 2);

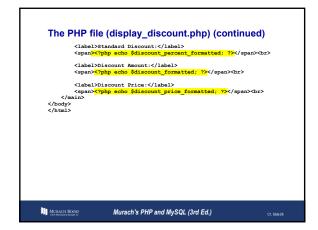
$discount_price_formatted input

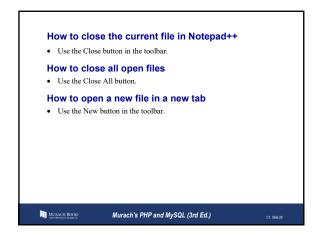
Sproduct_description_escaped = htmlspecialchars($product_description);

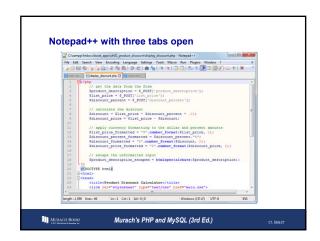
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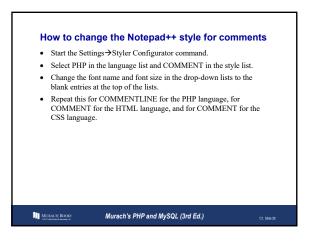


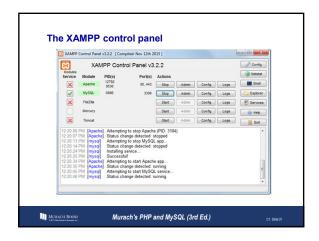
How to open files in Notepad++ • Use the Open button in the toolbar. • Right-click on the file in Windows Explorer and select Edit with Notepad++. How to save the current file • Use the Save button in the toolbar. • Press Ctrl+S. How to save all open files • Use the Save All button.

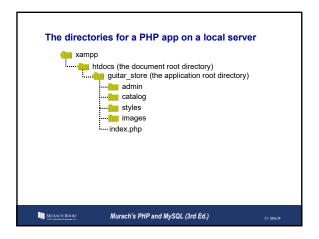




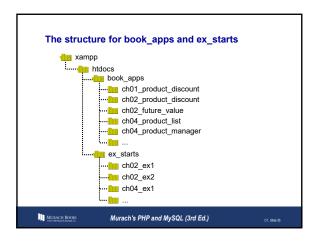




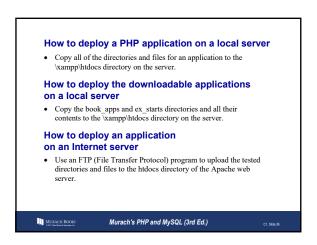


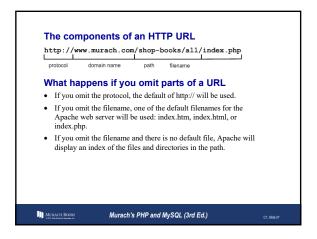


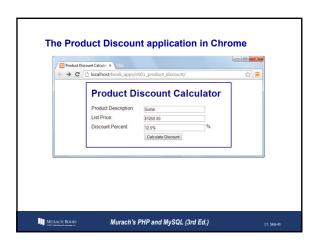
How to start the XAMPP control panel • Select the XAMPP Control Panel item from the Windows Start menu or double-click on the XAMPP icon on your desktop. How to start and stop Apache or MySQL • Click on its Start or Stop button. • To start Apache or MySQL automatically when your computer starts, click the Services button in the XAMPP control panel.



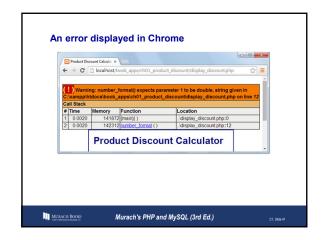
About XAMPP • XAMPP is a free, open-source web server package. • The package consists of Apache, MySQL, and interpreters for PHP. • XAMPP can be easily installed. • XAMPP is available for Windows, Linux, Solaris, and Mac OS X systems (the X in XAMPP stands for cross-platform).

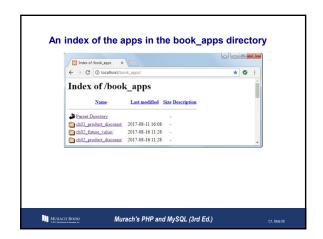


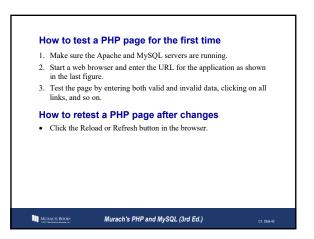


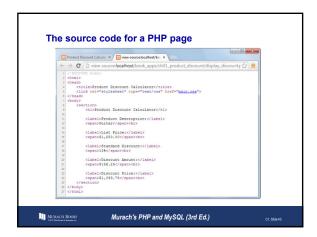














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How to view the source code for a page in Chrome and Firefox

Right-click the page, then select the ViewPage Source command.

How to view the source code for a page in IE and Edge

Right-click on the page, then select the View Source command.

Note about Microsoft Edge

 The View Source command isn't available by default for this browser. To enable it, you can press F12 to display the Developer Tools. Then, when you select the View Source command, the source code will be displayed in the Debugger tab within the Developer Tools window.

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About NetBeans

- NetBeans is an Integrated Development Environment (IDE) for developing PHP applications.
- NetBeans can make it easier to create, edit, and test the HTML, CSS, and PHP files that you need for a web application.

About NetBeans projects

- A NetBeans project consists of a top-level directory that contains the subdirectories and files for an application.
- Netbeans adds an nbproject subdirectory that contains the extra files that NetBeans needs for managing the project.

Mac OS X note

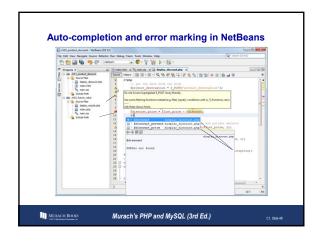
To enable right-clicking with Mac OS X, you can edit the system preferences for the mouse.

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NetBeans with three files in a project open Output, files, files



How to edit a PHP file with NetBeans

- Use normal editing techniques as you enter PHP code.
- When you see an auto-completion list, you can highlight an entry and press the Enter key to enter it into your code or you can double-click on it.
- If you see a red error icon at the start of a line that you have entered, you should fix whatever errors the line contains before you test the application.

How to test a PHP application with NetBeans

- To run the current project, click on the Run Project button in the toolbar or press F6.
- To run other projects, right-click on the project and select the Run command.
- To run a file, right-click on the file and select the Run command.



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How to check the run configuration for a project

- Right-click on a project in the Projects tab and select the Properties command.
- Then, click on Run Configuration in the Categories list and check the Project URL.

How to import a project

- Use the New Project command, but select PHP Application with Existing Sources in the Projects list.
- · This will step you through the import procedure.
- In the third step, you are asked to check the run configuration.
 Here, you need to make sure the URL for running the project is correct.

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