

Web development tutorial information

From Roswell IT Wiki

Overview

Here is a general overview of the technologies used for in house web development at Roswell Park Cancer Institute with links to tutorials and information to each. In order to successfully develop web application for Roswell, you should be familiar with each. If you have questions, please contact Programming Standards Architect Paul Visco or Web Team Manager Delmar Reid.

Technologies

X/HTML

X/HTML - XML/HyperText Markup Language is an XML based version of HTML which is used to display information in a web browser. It consists of a bunch of tags which control how the data is displayed and used by the client.

One of the best sites for HTML tutorials, also includes CSS
<http://html5dog.com>

CSS

CSS - Cascading Stylesheets is used to style the HTML content seen in the web browser. Stylesheets help separate the content and style of the information displayed. Another advantage is that multiple web pages can share stylesheets making it easier to have a unified and easily changeable look.

Here is the w3schools reference for CSS, http://www.w3schools.com/Css/css_reference.asp It has information about all of the properties you can style using CSS.

Javascript

The clientside technology that manipulates clientside information in the browser. It also handles clientside data validation and interactivity.

Here is the w3schools reference for Javascript. Once you are familiar with the language you can learn to use the surebert toolkit which is built on top of javascript and what we use at Roswell.

PHP

PHP is the programming language used to develop in house web applications at Roswell. PHP makes connections to the database, handles data input and output, authentication and writes the final output to the client - usually in the form of XHTML.

PHP.net has the entire PHP manual with user notes. You can find links to all aspects of PHP of the language reference page <http://us3.php.net/manual/en/langref.php> Here is another simple overview of it.

I would advise you to go over the Classes and Objects section, especially if you are unfamiliar with

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object oriented programming. <http://us3.php.net/zend-engine-2.php>

SQL

SQL - Structured Query Language is used to get information out of the Relational Databases that act at the back end data store for our web applications. Some applications have more than one database using and use multiple database technologies. A great overview of SQL can be found at <http://sqlzoo.net/>

PDO

To connect to all backend DB engine's we use PHP's PDO. The manual is very comprehensive. There are also a bunch of tutorials at <http://www.phpro.org/tutorials/Introduction-to-PHP-PDO.html>

MySQL

MySQL is one of the database technologies used in web development. The MySQL 5.0 manual can be found here and a great tutorial tutorials can be found at mysqltutorial.org

MSSQL

MSSQL is one of the database technologies used in web development. MSSQL is made by microsoft and its manual can be found on the microsoft site. <http://msdn.microsoft.com/en-us/library/bb545450.aspx>

ORACLE

ORACLE is one of the database technologies used in web development. Lawson data is stored in Oracle. Oracle documentation can be found at <http://www.oracle.com/technology/documentation/index.html>

Web Servers

Apache

Apache is used to serve the content that is produced by PHP to the clients web browser. Apache runs on Windows, Linux and Mac and is free. The apache docs can be found on the apache site @ <http://httpd.apache.org/docs/> As a web developer it is useful to understand how the web server works. Most basically, it receives requests and data from the client over port 80 and passes those requests to PHP which parses them and then passes the data back to apache. From there it is served to the client.

Surebert

Toolkit

The surebert toolkit is a complete solution for developing highly interactive javascript based client side applications. Surebert handles most of the inconsistencies between the major browsing platforms (IE, firefox and Safari) allowing the programmer to concentrate on what they want to accomplish instead of the tedious labor of how to make their code work in all the browsers. Surebert's style of javascripting encourages a clean separation of content, design and interactive scripting - making script upkeep, sharing, and debugging easier to handle. Surebert has been continuously developed and tested since September of 2004. Using it requires an intimate understanding HTML, CSS and javascript - see above links for more information.

Framework

The surebert framework The surebert framework is an MVC based framework for PHP 5 and the surebert javascript toolkit. It was developed by Paul Visco and is used by Roswell Park Cancer Institute for internal and external development.

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