Topic Exploration Pack

Web Technologies

# Worksheet for HTML, CSS and javascript

Task 1

To create a web page you need to mark it up in HTML. Use the tutorials provided by w3schools, <http://www.w3schools.com/html>, to help you to create a simple web page in HTML that defines a form for a user to enter sign in details for a customer of an online business. You need to consider the data required, but this must contain some form of ID or username and password.

Task 2

Adding a suitable style sheet will add consistency to any pages produced. Referring to the resource by w3schools: <http://www.w3schools.com/html/html_css.asp>.

Add suitable style sheet commands to format the web page you have created.

Task 3

To add interactivity to the webpages use javascript. Use the w3 resources, <http://www.w3schools.com/html/html_scripts.asp>, to help you with this task.

Add validation to ensure customer IDs are of the right length and type and that all fields have been completed.

Task 4

Server side scripting requires a server so use XAMPP, <https://www.apachefriends.org/index.html>, to set up a server with web pages hosted on a USB memory stick. You can find several tutorials to explain this process, for example <https://www.udemy.com/blog/xampp-tutorial/>

Task 5

Server-side scripting often uses PHP scripting and there are numerous free-to-use examples such as EASYPHP. Access to the basics for PHP scripting can be found on w3schools, <http://www.w3schools.com/php/default.asp>.

Create an online database with customer details that can verify a customer login by comparing their ID with a cleartext password in an online database.

Activity for page rank

You can check page rank with web tools such as <http://www.checkpagerank.net>

Look at some websites you use frequently and find out how they rank; how do they compare to the school or college website?