

## Unit 20:

# Client Side Customisation of Web Pages

Unit code:	Y/601/7660
QCF Level 3:	BTEC National
Credit value:	10
Guided learning hours:	60

### ● Aim and purpose

The aim of this unit is to ensure learners understand the fundamentals of cascading style sheets and scripting languages and are able to develop the skills required to implement web pages using these tools.

### ● Unit introduction

There is an increasing expectation that website design will adhere to web standards and that websites will consist of sophisticated, interactive web pages. This requires website designers and creators to be familiar with standard tools, techniques and languages in order to create such websites. In particular, web standards are beginning to expect mark-up to be done in XHTML, layout to be controlled by cascading style sheets (CSS) and client side interactivity by a scripting language such as JavaScript or VBScript.

XHTML is a stricter version of HTML and adheres to XML standards. CSS and JavaScript or VBScript are powerful scripting languages used to create sophisticated layouts and interactivity on web pages, respectively. A key feature of CSS/JavaScript or VBScript is that the script (code) is stored on the clients' system rather than on host server systems. As they do not need to interact with a web server, this can save resources and network bandwidth. CSS are capable of creating complex, sophisticated layouts which are easy to maintain and update across the whole website or individual pages. JavaScript or VBScript is able to validate information that users enter into a form before it is sent to a web server for processing.

This specialist unit is an introduction to the creation of web pages with some compliance with web standards. Layout will, therefore, be controlled by CSS, and interactivity controlled by a client side scripting language such as JavaScript or VBScript. Learners will develop an understanding of the fundamental characteristics of CSS and a chosen scripting language. Learners will develop web pages with sophisticated layouts in which calculations can be performed by combining the two tools.

### ● Learning outcomes

**On completion of this unit a learner should:**

- 1 Understand the fundamentals of cascading style sheets (CSS)
- 2 Understand the fundamentals of scripting languages
- 3 Be able to control the layout of web pages using CSS
- 4 Be able to create interactive web pages.

# Unit 20 Client Side Customisation Of Web Pages Edexcel

**Jin-Ying Zhang**



## **Unit 20 Client Side Customisation Of Web Pages Edexcel:**

**Web Content Personalization and Customization** Maha Nizam Shamseddine, American University of Beirut. Faculty of Engineering and Architecture. Department of Electrical and Computer Engineering, 2003 Web personalization and customization are increasingly important services for web users. The conventional approaches used in implementing these services lead to poor responsiveness, lengthy network delays, client privacy violations, simple interfaces, and so on. This research addresses an improved solution to implement customizable web applications using the Java Network Launching Protocol (JNLP), resulting in reduced network loading, client-side approach. The proposed model uses pure client-side user interface generation techniques to provide content customization and personalization services as well as flexibility that is independent of the client machine's underlying platform and browser type. This solution greatly enhances the user's experience and improves the response time of the web application, personalized services through storing and processing personal data and settings on the client's own machine. This feature reduces client-server network traffic, decreases the web server's storage cost, and enhances privacy by maintaining personal data on the client's own machine. The research approach is demonstrated by implementing a billing application. To illustrate the effectiveness of the proposed solution, a performance comparison is done between this application and the same application implemented using conventional tools such as HTML, JavaScript, and a scripting language.

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