BTEC L3 Extended Diploma in Information Technology

Responsible Team:	Business, ICT and Travel		

Module Title:	Web Server Scripting	Internal Verifier	S Karavadra
Module Tutor:	Derek Peacock & Joseph Ake	Course Code	CEDICTXX3
Assignment Title/No:	Assignment 1/2	Module Code	Unit 27
Submission date/week:	Friday 22/06/2018	Hand out Date	26/04/2018

Submission instructions	

To be submitted by 11.55pm on Friday 22nd June electronically via Cloud using links provided.

Learning Outcomes	

- Understand the principles of web server scripting
- Understand the issues affecting web server scripting

Tasks	

You have been newly appointed to a web development company which has been asked to update a website for a local car dealership – Aylesbury Automobiles. The current website has static fixed web pages and the car dealership wants to be able to update the content of the site's web pages by changing the content of its newly created SQL Server Database.

Your company has asked you to conduct preliminary investigations into Web Server Scripting and produce a report prior to committing a project team to creating a new version of this car dealership website.

TASK 1

In your report describe server-side scripting

- Languages (e.g. ASP, PHP, Ruby on Rails) and how they work
- Include examples of use of server-side scripting
- Features such as shopping carts, user accounts, content management
- Explain the advantages/disadvantages of interpreted and compiled scripts
- Accessibility Issues such as screen readers, alternative text and responsive design

(P1)

Compare client and server-side scripting, include relevant example images

(M1)

Evaluate the combined use of client and server-side scripting within a website such as ASP.NET MVC or Web Forms, or PHP

(D1)

TASK 2

Explain the issues surrounding web server scripting (see below) and recommend ways to improve web security when using web server scripting.

Security*: specific problems e.g. coding vulnerabilities, bad scripting leaving backdoors, SSL, password liabilities*

Ethical issues*: e.g. scanning PCs without consent, faking statistics to obtain advertising deals based on visitor numbers*

(P6)

Recommend ways of improving security by using web server scripting

(D3)

Format for submission	

Written report in Word with suitable examples of client-side and server-side scripting.

Suggested Methods	

Research using the internet and in particular, the ASP.NET website. Coding example websites such as WingTip Toys Download E-book (PDF) using Web Forms

The Music Store https://docs.microsoft.com/en-us/aspnet/mvc/overview/older-versions/mvc-music-store/ using MVC

Useful Sources	

Recommended Reading:

*Beginning ASP.NET 4.5.1: In C# and Vb***,** Imar Spaanjars, Wrox (2014)

ASP.NET MVC with Entity Framework and CSS, Lee Naylor, Apress (2016)

Websites:

Microsoft Documentation: https://docs.microsoft.com/en-gb/aspnet/overview

ASP.NET Web Forms: https://www.asp.net/web-forms

ASP.NET MVC: https://www.asp.net/mvc

Visual Studio Community Edition (free) https://www.visualstudio.com/downloads/

Assessment and Grading Criteria	

P1	explain the principles of web server scripting	M1	compare server-side and client-side scripting [IE 3]	D1	evaluate the combined use of client and web server scripting
P6	explain the issues surrounding web server scripting. [SM1]			D3	recommend ways to improve web security when using web server scripting.