

Assignment front sheet							
Qualification			Unit number and	l title			
Pearson BTEC Higher Nationals in Computing and Systems Development		Unit 42: Programming in .NET					
Studer	nt name			Assessor name			
			Dr Derek Peacock				
Date is	ssued	Com	pletio	n date	Submitted	Submitted on	
11 th Ma	y 2017	9 th Ju	une 20	17			
Assignment title		Assig	ınmen	t 2: ASP.NET Prograr	nming		
0	Learning outcome (LO)	AC	the	In this assessment you will have the opportunity to present evidence that shows you are able to: Task no		Evidence	
		3.1		ement a .NET programn d on a prepared design	ning solution	1	Web Pages
	Be able to implement .NET solutions	3.2		ement event handling u tures to meet the desig		1	C# or JavaScript code
U42 LO 3		3.3		ify and implement opp handling and reporting		1	Client side and server side validation
		3.4	Deve	e effective use of an Int lopment Environment (and screen templates		1	MVC Scafolding or Data Controls

I certify that the work submitted for this assignmen acknowledged.	t is my own and research sources are fully
Student signature:	Date:

Learner declaration

In addition to the above PASS criteria, this assignment gives you the opportunity to submit evidence in order to achieve the following MERIT and DISTINCTION grades

Grade Descriptor	Indicative characteristic/s	Contextualisation
M1 Identify and apply strategies to find appropriate solutions	complex problems with more than one variable have been explored	Web pages and code pages produced on schedule that provide an easy to use interface, and that perform client side data validation well
M2 Select/design and apply appropriate methods/techniques	a range of methods and techniques have been applied	Web pages and code pages that embody the specified principles of good coding practice.
M3 Present and communicate appropriate findings	the appropriate structure and approach has been used	Web pages and code pages that are well commented, structured and formatted so that they match the agreed house style
D1 Use critical reflection to evaluate own work and justify valid conclusions	Self-criticism of approach has taken place	An evaluation of the design and its implementation with suggestions for improvement
D2 Take responsibility for managing and organising activities	Activities have been managed	A project plan with all the activities scheduled, updated and the deliverables completed by the agreed deadline.
D3 Demonstrate convergent/lateral/ creative thinking	innovation and creative thought have been applied	The web page produced that contains ideas of features or improvements that clearly show innovation or creativity

Assignment brief

Unit number and title Unit 42: Programming in .NET	
Qualification Pearson BTEC Higher Nationals in Computing and System Development	
Start date	
Deadline/hand-in	
Assessor	Dr Derek Peacock

Assignment title	Assignment 2: ASP.NET Programming
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Purpose of this assignment

To provide learners with an understanding of the principles of programming using a .NET Framework as an underpinning technological concept in the fields of programming and systems development. This assignment will provide an opportunity to create an application using the latest version Visual Studio and C#.NET

Scenario

Valerian Software is a small software development firm newly established that is looking to develop novel dynamic interactive websites that make use of modern web development best practices.

You have been recently appointed as a trainee web developer and you are required as part of your job to complete an on-going CPD program which will last two years.

Your team has been given the job of implementing part of the approved design for an ecommerce application using ASP.NET

Task 1

- **AC 3.1:** Each member of the team should create back-end web pages that add, edit, delete view and list one or two entities in the application, and at least 8 attributes. The implementations should be based on an approved E-R design that is in third normal form or better.
- **AC 3.2**: Add queries and code to extract the data required from the database and check data validation.
- **AC3.3:** These pages should have code added that implements event handling, error handling and reporting.
- **AC3.4:** Each team member should also create at least one public dynamic front end page for the application that uses data from the database.

Evidence checklist	Summary of evidence required by student	Evidence presented
	Web pages that allow authorised staff to add, edit, remove, display and list an entity with at least 8 attributes containing at least four different data types	
Task 1	 Please include:- Explanation of MVC Scaffolding and Routing Screen shots of 5 web CRUD and Index pages Commented C# Code for Model and Controller CSHTML Code for 5 Views Database Migrations Code Database Seed Code jQuery Validate Code (sample) with explanation of how this code is applied through bootstrap 	
	For Merit	
	M1: Good data validation, and suggested improvements where the data validation can be improved	
	M2: Separation of concerns, no unnecessary duplication, good use of HTML5 and Boostrap css and JavaScript	
	M3: C# and HTML code that is formatted to an acceptable standard with appropriate use of names and C# code suitably commented	
	For Distinction	
	D1: A critical evaluation of MVC code first migrations and scaffolding	
	D2: A team project plan with all the tasks identified, allocated to individual team members, with suitable dependencies and updated at appropriate times	
	D3: The standard scaffolding code has been modified in a way that shows innovative improvements in the way the CRUD pages work. Alternatively, modifications to any of the e-commerce web pages that shows creative and innovative though has been applied.	

Achievement Summary

Qualification	Pearson BTEC Higher Nationals in Computing and Systems Development	Assessor name	Dr Derek Peacock
Unit Number and title	Unit 42: Programming in .NET Unit	Student name	

Criteria Reference	To achieve the criteria the evidence must show that the student is able to:	Achieved ?
		(tick)
U42-3.1	implement a .NET programming solution based on a prepared design	
U42-3.2	implement event handling using control structures to meet the design algorithms	
U42-3.3	implement event handling using control structures to meet the design algorithms	
U42-3.4	make effective use of an Integrated Development Environment (IDE) including	

Higher Grade achievements (where applicable)

Grade descriptor	Achieve d?	Grade descriptor	Achieve d?
	(tick)		(tick)
M1: Identify and apply strategies to find appropriate solutions		D1: Use critical reflection to evaluate own work and justify valid conclusions	
M2: Select / design and apply appropriate methods / techniques		D2: Take responsibility for managing and organising activities	
M3: Present and communicate appropriate findings		D3: Demonstrate convergent /lateral / creative thinking	

Assignment Feedback

Formative Feedback: Assessor to Student			
Action Plan			
Summative feedback			
Feedback: Student to Assessor			
Assessor Signature	Date		
Student Signature	Date		