Assignment front sheet

Qualification	Unit number and title
Pearson BTEC Higher Nationals in Computing and Systems Development	Unit 10: HCI Unit 14: Web Site Design
Student name	**Assessor name**
	Dr Derek Peacock

Date issued	Completion date	Submitted on
9th January 2017	14th February 2017	

Assignment title	A14.2: Testing a Web Site

	Learning outcome	AC	In this assessment you will have the opportunity to present evidence that shows **you are able to:**	Task no.	Evidence
U10 LO 3	Be able to develop a human computer interface	3.3	critically review and test an interface	2	Web Pages
		3.4	analyse actual test results against expected results to identify discrepancies	2	Web Pages
		3.5	evaluate independent feedback and make recommendations for improvements	3	Survey & Blog Posts
		3.6	create onscreen help to assist the users of an interface	1	Web Pages
		3.7	create documentation for the support and maintenance of an interface	4	Web Page
U14 LO 3	Be able to implement interactive websites	3.1	Implement a fully-functional interactive website using a design specification	1	Web Pages
U14 LO 4	Be able to test interactive websites	4.1	Critically review and test the website	2	Web Pages
		4.2	Analyse actual test results against expected results to identify discrepancies	2	Web Pages
		4.3	Evaluate independent feedback and make recommendations for improvements	3	Survey & Blog Posts
		4.4	Create onscreen help to assist the users	1	Web Pages
		4.5	create documentation for the support and maintenance of the website	4	Web Page

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

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	Effective judgements have been made	*Individual Web pages have been produced on schedule, that match the design well, and any issues identified were resolved efficiently*
M2 Select/design and apply appropriate methods/techniques	Relevant theories and techniques have been applied	*The individual web pages are in line with currently recognised good practice in web development. That includes using commonly accepted CSS frameworks and JavaScript libraries* *The implementation also needs to be mostly complete (>80% of intended features implemented).*
M3 Present and communicate appropriate findings	Coherent, logical development of principles/concepts for the intended audience	*The final review of the website clearly shows that potential users find the site easy to understand and use, with good accessibility as judged by a user survey.*
D1 Use critical reflection to evaluate own work and justify valid conclusions	Self-criticism of approach has taken place	*Individual blog posts showing critical evaluation of planning, organisation, tools used, techniques followed and the products produced*
D2 Take responsibility for managing and organising activities	Effective planning, organising and managing of individual tasks	*A detailed plan has been produced and continuously updated showing individual task allocation and completion on schedule*
D3 Demonstrate convergent/lateral/ creative thinking	Innovation and creative thought has been applied	*Individual Web pages have been produced that show creative thought or new ideas*

Assignment brief

Unit number and title	Unit 10: HCI Unit 14: Website Design
Qualification	Pearson BTEC Higher Nationals in Computing and Systems Development
Start date	
Deadline/hand-in	
Assessor	Dr Derek Peacock

Assignment title	A14.2: Developing a Web Site

Purpose of this assignment

This assignment will focus on the practical skills of building and testing an interactive website using HTML5, CSS3 and JavaScript with leading CSS Frameworks and JavaScript Libraries. It will give students an opportunity for working in small teams as most software in industry is developed in teams using project management tools and an industry standard version control system. It will also give students opportunities for continuous review and improvement during the development process.

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.

Valerian Software (http://valeriansoftware.com/) designed and developed an online project management system which it released onto the market in 2010. You are asked to join a small team that will design a new version which can compete against the market leaders that include Basecamp (https://basecamp.com/). Customers of Basecamp include Adidas, twitter, Nike, National Geographic and DHL.

There however many other potential e-commerce applications, and your team can propose an alternative web based e-commerce application. It will however have to be viable in the timescale, and utilise a similar skill set as the proposed application. You will need your manager's approval for any alternative application.

Task 1 (U14 3.1 and U14 4.4 and U10 3.6)

Plan and create a website contain web pages that match the agreed design. Each member of the team should complete at least three pages, and part of the help system.

Implement web pages to assist the user understand how to make best use of the site. Make sure the site follows accessibility guidelines, and uses titles, alt tags, captions and other methods to provide onscreen assistance to the user

Task 2 (U14 4.1, U14 4.2, U10 3.3, U10 3.4)

Each member of the team should devise a suitable test plan to test each web page, each link, and each function. Check that the html pages are compliant with W3C standards

Execute all the tests and record the results. Document as issues any tests that fail, and resolve if possible. Explain any instances where the expected result is not the same as the actual result

Task 3 (U14 4.2, U14 4.3, U10 3.5)

As a team design an online survey on your completed website. The questions should assess accessibility, navigation, website identity and content. The survey should be completed by at least ten people who are not part of your team.

Hold a review meeting in which all the development team are present, together with at least four people outside the team. Discuss the results of the survey

Make a note of all feedback in two lists. Features of the design that are liked by users and features of the design that could be improved together with suggested improvements.

Task 4 (U10-3.7, U14-4.5)

Create a web page for staff that details a plan for the maintenance and support of the website.

Task 5 (Distinction only)

Submit blog entries that clearly show self-reflection and critical evaluation of the design, implementation and testing of the web application as well as critical evaluation of planning, organisation, tools used, techniques followed and the products produced.

Evidence checklist	Summary of evidence required by student	Evidence presented
Task 1	Published web pages that match the agreed design	
Task 2	A test plan with recorded results, tracked issues and explanation where results do not match expectations	
Task 3	A completed survey on the completed website and an evaluation of the web pages which lists all the good features and all the suggested improvements	
Task 4	A series of blog posts that show self-reflection has been applied to the product, the process and the procedures.	
Task 5	A maintenance and support plan for the website	

Achievement Summary

Qualification	Pearson BTEC Higher Nationals in Computing and Systems Development	Assessor name	Dr Derek Peacock
Unit Number and title	Unit 10: HCI Unit 14: Website Design	Student name	

Criteria Reference	To achieve the criteria the evidence must show that the student is able to:	Achieved? (tick)
U10 3.3	critically review and test an interface	
U10 3.4	analyse actual test results against expected results to identify discrepancies	
U10 3.5	evaluate independent feedback and make recommendations for improvements	
U10 3.6	create onscreen help to assist the users of an interface	
U10 LO 3.7	create documentation for the support and maintenance of an interface	
U14 LO 3.1	implement a fully-functional interactive website using a design specification	
U14 LO 4.1	critically review and test the website	
U14 LO 4.2	analyse actual test results against expected results to identify discrepancies	
U14 LO 4.3	evaluate independent feedback and make recommendations for improvements	
U14 LO 4.4	create onscreen help to assist the users	

Higher Grade achievements (where applicable)

Grade descriptor	Achieved? (tick)	Grade descriptor	Achieved? (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**	