HCI/Website Development Overview of merged tasks

Web/HCI – Assignment 2 - Task 1 – **Problem Definition Statement**

Unit 10 HCl — Specification Content	Uni:	Unit 15 Web — Specification Content	Task	Completed?
B1 Requirements for a HCI solution	B1 W	B1 Website design	Problem definition statement to cover the	
Tasks to be performed.	•	Problem definition statement requirements: intended	content described. Identify the target	
 Input required, e.g. mouse, touchscreen or voice. 		audience, full summary of the problem to be solved,	audience.	
 Output required, e.g. graphics, animations, audio 		constraints, benefits, nature of interactivity, complexity		
feedback or physical feedback.		of the website.		
 User needs, e.g. accessibility considerations, purpose of 	•	Purpose requirements as defined in a client brief for their		
system, environmental factors.		interactive website.		

Web/HCI – Assignment 2 - Task 2 – Design Documentation

	outcomes) Feedback on your designs Changes to designs based on feedback Review of your designs Justifications of the design decisions		
	Pseudocode Flowcharts Test plan (including tests and expected		
	TOU SITURING LOWER!: Copyright, Designs and Patents Act 1988 and its requirements in terms of protecting Software products and digital media, such as images, music and films. Data Protection Act 1998 and the requirements it places on organisations to keep data about living individuals secure.		
	proposals		 Methods of obtaining feedback to improve designs, e.g. user testing, client meetings.
	Ireland and how they relate to your design	data to test functionality.	of the alternatives
	considerations applicable to the equivalent legislation in England, Wales and Northern	 Testing plan requirements and its completion with test 	 Alternative solutions with comparison to the proposed solution and advantages and disadvantages
	explanation how you will work around them Description of the legal and ethical	refine alternative design ideas/prototypes and make	The second secon
	Technical and design constraints and an	 Obtaining and using feedback from others to help 	 Advantages and disadvantages of proposed solution
	storyboards).	Computer Society (BCS) standard flow chart symbols)	notes, research, user profiling
	Designs for the web site (annotated	pseudocode, flow charts (including use of British	 Supporting documentation, e.g. meeting
	created websites	 Client-side scrinting design tools and techniques in g 	code, wiring diagrams Consideration of design rules
	design principles as used by professionally	compatibility with mobile/tablet devices.	
	Description of how you will apply website		o Target platform
	website	 realistic representations 	required, bandwidth limitations
	The purpose requirements/target audience as	mood board, wireframe, site maps	storyboarding, flow charts
		 Diagrammatic illustrations, e.g. storyboard, 	 Visualisation/interface design, e.g.
	 Nature of interactivity Complexity of the website 	website, including:	 Hardware and software requirements
	Benefits	principles) and the requirements for an interactive	 Client requirements
	Full summary of the problem to be solved Constraints	 Initial design ideas/prototypes (illustrating design 	Presenting a solution:
	following requirements:	 Application of website design principles by professionally created websites 	 Generation of ideas, e.g. mood boards, client/designer meetings
	A problem definition statement, covering the	client website.	relevant aspects, including:
		Understanding the steps involved in developing a design for a	Documentation needed to develop a solution and record
	Create design documentation:	B1 Website design (continued)	B2 Schematic design documentation for a HCI solution
Completed?	Task	Unit 15 Web — Specification Content	Unit 10 HCl — Specification Content

Web/HCl – Assignment 2 - Task 3 – Assets Table/Copyright Description

Unit 10 HCI — Specification Content	Unit 15 Web — Specification Content	Task	Completed?
C1 Content preparation for a human-computer interface	B1 Website design (continued)	Asset Table and description of how assets	
Selection and application of appropriate processing and	Effective use of ready-made and/or original assets, e.g. a	will be used (include file types/sizes etc.)	
editing techniques to prepare resources to meet client needs.	digital animation, digital graphic, digital audio and video, or		
 Creating unique content, e.g. sounds, images, 	any other combined assets.	Description of copyright legislation and	
control code.	 Identifying technical and design constraints and 	the data protection act (GDPR) with	
 Use of content created by others: 	working around them.	regard to your assets and the customer	
o Permissions	 Legal and ethical considerations applicable to the 	data you might collect.	
 Acknowledging sources 	equivalent legislation in England, Wales and		
 Legal and ethical considerations 	Northern Ireland:		
applicable to the equivalent legislation	 Copyright, Designs and Patents Act 1988 		
in England, Wales and Northern Ireland,	and its requirements in terms of		
e.g. using content created by others.	protecting software products and digital		
	media, such as images, music and films.		
 Optimisation, e.g. file size, image size. 	 Data Protection Act 1998 and the 		
 Alternate formats for screen orientation, e.g. 	requirements it places on organisations		
landscape, portrait.	to keep data about living individuals		
 File formats, i.e. compatibility, performance, 	secure.		
quality.			
 Compression requirements for items such as 			
images, possible constraints, file size and image			
quality.			

Web/HCI – Assignment 2 - Task 4 – Website/HCI Development

		suitable file types.	
		 Exporting and compressing of digital assets into 	
		system, mobile devices.	
		 Platform compatibility, e.g. browser, operating 	
		standards for accessibility and HTML compliance.	
		 The World Wide Web Consortium (W3C®) 	
		features, text-to-speech.	
		 Accessibility features, e.g. alternative tags, zoom 	
		digital video.	
		digital animation, digital graphics, digital audio,	
		 Embedded multimedia/digital asset content, e.g. 	
		and element position.	
		text formatting, borders, padding, heading styles,	 Supporting documentation.
		 CSS, e.g. background colour, background images, 	coding to control connected hardware.
		 Colour schemes, styles and templates. 	recognising keystrokes, adaptive technologies,
		buttons, menus, rollover images.	 Hardware integration, e.g. bespoke controllers,
		 Interactive components, e.g. hot spots, pop-ups, 	intended program.
		external), anchors.	to add functionality, applying interface to
		 Navigation, menus, hyperlinks (internal and 	 Software integration, e.g. event handling, coding
		buttons, check boxes.	version, adaptive for user needs.
		 Forms, text field, text area, buttons, radio 	 Implementing alternative interfaces, e.g. mobile
		Tables.	icons, menus, window layout.
		 HTML, HTML5 and subsequent updates. 	 Primary interface implementation, e.g. standard
		client requirements.	requirements.
		Use of tools and techniques and their suitability for different	Application of HCI design principles to meet client
	Make the website	B2 Common tools and techniques used to produce websites	C2 Developing a HCI solution
Completed?	Task	Unit 15 Web – Specification Content	Unit 10 HCl — Specification Content

Web/HCI – Assignment 2 - Task 4 (continued) – Website/HCI Development

Unit 10 HCl — Specification Content	Unit 15 Web – Specification Content	Task	Completed?
C2 Developing a HCI solution	C1 Client-side scripting languages	Make the website	
Application of HCI design principles to meet client	 Embedding of original client-side scripts into web 		
requirements.	pages to provide more interactivity and improve the		
 Primary interface implementation, e.g. standard 	usability of the website.	Upload websites to Moodle	
icons, menus, window layout.	 Types of web scripting languages, e.g. JavaScript[®] 		
 Implementing alternative interfaces, e.g. mobile 	VBScript [®] .		
version, adaptive for user needs.	 Uses of scripting languages, e.g. alerts, confirming 	Annotated screen shots of the	
 Software integration, e.g. event handling, coding 	choices, browser detection, creating rollovers,	completed web site	
to add functionality, applying interface to	checking/validating input, handling forms.		
intended program.	 Constructs, e.g. syntax, loops, decision-making, 		
 Hardware integration, e.g. bespoke controllers, 	functions, parameter passing, handling events,	Evidence of uploading and	
recognising keystrokes, adaptive technologies,	methods.	hosting your website (give	
coding to control connected hardware.		IIBIs to tutor)	
 Supporting documentation. 	C2 Website development	טאנא נט נמנטו)	
	Creation of interactive websites, including:		
	 Use of CSS, e.g. HTML tags, CSS frameworks, box 		
	model, access CSS from HTML, doc types		
	 Use of original client-side scripting 		
	 Compatibility with mobile and tablet devices 		
	 Effective use of tools and techniques 		
	 The uploading of files to a web server or host 		
	computer/ device.		

Web/HCl – Assignment 2 - Task 5 – Testing and Optimising the Website HCl

Unit 10 HCl — Specification Content	Unit 15 Web — Specification Content	Task	Completed?
C3 Testing an interaction solution	C4 Website optimisation	Evidence of testing including	
 Identifying how and what to test, e.g. producing 	Optimising an interactive website, including:	+	
a test plan, choosing test data, test user	 Performance and user testing 	test plans and data, user	
identification.	 Obtaining and evaluating feedback from others 	feedback and details of the	
 Types of testing, e.g. effectiveness, functionality, 	Checking interactivity	changes made in response to	
performance.	 Checking compatibility 		
 Obtaining feedback from others, e.g. 	 Refinements and making improvements to meet 	testing	
questionnaires, interviews, checklists.	client needs to optimise the website.		
 Making improvements and/or refinements to 		Annotated screen shots of the	
solutions in response to testing and feedback)	
from others.		optimised web site with	
		changes based on user	
		feedback	

Web/HCl – Assignment 2 - Task 6 – Review

			and fulfil the identified needs.
			be improved to better meet the needs of the user
			 Evaluation of how the implemented solutions could
			 Strengths and weaknesses of the solution
			input from others, decisions made
			 Impact of design and development processes, e.g.
			copyright
			Northern Ireland, e.g. accessibility requirements,
			equivalent legislation in England, Wales and
			 Legal and ethical considerations applicable to the
			components, platform, compatibility
		 Strengths and improvements 	 Constraints, e.g. time, sourcing hardware
		 Legal and ethical constraints 	efficiency/performance, maintainability, portability
		including optimisation	 Quality of the solution, e.g. reliability, usability,
		 Suitability against the client's requirements, 	Ease of use
		 Suitability for intended purpose and audience 	 Suitability for audience and purpose
	development of the web site	 Quality in comparison with other similar websites 	including:
	dovolopmont of the wob site	Reviewing interactive websites:	Review of the success of development of a HCl solution,
	Evaluation of the design and	C3 Website review	C4 Reviewing the development process and outcomes
Completed?	Task	Unit 15 Web – Specification Content	Unit 10 HCl — Specification Content

Web/HCl – Assignment 2 - Task 6 (continued) – Review

 justified recommendations and decisions. Evaluating targets to obtain insights into own performance. 	supportive of others, timely and appropriate leadership, accountability and individual responsibility. • Evaluating outcomes to help inform high-quality.	against the original requirements. • Demonstrate own behaviours and their impact on outcomes, including professionalism, etiquette,	 Reviewing and responding to outcomes, including the use of feedback from others, e.g. IT professionals and users who can provide feedback on the quality of the HCI solution and its suitability 	 Planning and recording, including the setting of relevant targets with timescales, how and when feedback from others will be gathered. 	Unit 10 HCl — Specification Content C5 Skills, knowledge and behaviours C5 Skills, knowledge and behaviours C5 Skills, knowledge and behaviours
justified recommendations and decisions.	supporting others, timely and appropriate leadership, accountability and individual responsibility. Evaluating outcomes to help inform high-quality.	against the original requirements. Demonstrate own behaviours and their impact on outcomes, including professionalism, etiquette,	Reviewing and responding to outcomes, including the use of feedback from others, e.g. IT professionals and users who can provide feedback on the quality of the website and their suitability	Planning and recording, including the setting of relevant targets with timescales, how and when feedback from others will be gathered.	Unit 15 Web — Specification Content C5 Skills, knowledge and behaviours
			plan and witness testimony from your tutor.	responsibility, effective time- management including a time	Task Evidence of individual
					Completed?