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BIT607 Web development Assessment 2

Weighting

30%

Learning outcomes

- LO2 Apply HCI principles to design and implement a web application using frameworks and techniques that focus on responsive design, user experience (UX), and the usability and accessibility of the application.
- LO4 Implement, evaluate and use a range of tools and techniques required for the development of a web application

Instructions

Complete and submit your assessment according to the Open Polytechnic's <u>Assessments webpage</u>. This includes information on academic integrity, word limits and referencing.

- Include your name, student number and the assessment number.
- Number your pages.

Submission

- Submit your assessment in 5 files:
 - o 1 x word processing document
 - o 4 x wireframe image files
- Submit your work through your iQualify course.
- Emailed assessments will not be accepted.
- You will receive an automated notice following submission.

By submitting your assessment, you confirm that it is your own, original work.

Introduction

Over your three assessments for BIT607 Web development, you will design and build a web application. Assessment 2 is based on the same project brief documents as BIT607 Assessment 1:

- Appendix 1 Project brief
- Appendix 2 Menu

In Assessment 2, you will complete three assessment tasks to:

- Plan and analyse how you will make your web application design responsive, usable, and accessible.
- Develop a responsive web application from the requirements and planning you completed for Assessment 1.
- Submit the code for your application.

Task 1 - Design planning and analysis

Task 1 of Assessment 2 will use the goals, requirements and wireframes you gathered in Assessment 1.

Note - Include your wireframes with your assessment (1 mark).

Submit the four wireframes from Assessment 1 as clearly named image files. You can include any revisions or changes you've made to your design since submitting Assessment 1 if you wish. Your explanation can then refer to the images you've submitted.

Part 1. Responsive design

- Explain three things your development work will include to ensure your application is mobile responsive.
- How would you test to see if this has been achieved?

Part 2. Usability

- Explain three things your development work will include to ensure your application is usable.
- How would you test to see if this has been achieved?

Part 3. Accessibility

- Explain three things your development work will include to ensure your application is accessible.
- How would you test to see if this has been achieved?

(Word count guideline: 500 words)

(25 marks)

Task 2 - Develop a web application

Develop a web application locally that implements the wireframe and information architecture you defined in Assessment 1. We suggest that you use Visual Studio Code, but if you would like to use a different software, you can. You can include any revisions or changes you've made to your design since submitting Assessment 1 if you wish.

In Task 2 of this assessment, you will need to demonstrate your ability to implement, evaluate and use a range of tools and techniques required for the development of a web application.

At a minimum, ensure you have the following pages and content:

- home (image of restaurant)
- contact (map)
- hours (calendar)
- menu (food and drink with illustrative images)
- reservations (with a form to allow reservations to be taken).

For any dynamic content we suggest that you use Google maps, forms, and calendar, but if you prefer you can use another service.

Your completed web application should meet the following five requirements:

- Use valid HTML5 to implement web page headers, footers, content and navigation between the web pages. Check your HTML code using a validation tool and provide screenshots of your use/results.
- 2. Formatting should be controlled from a separated and linked CSS file created using CSS3 standards.
- 3. Follow accessibility guidelines where appropriate. Consider:
 - Headings and alt text
 - Style and colour
 - o ARIA
- 4. Apply responsive design principles to make the web application mobile-ready.

Consider:

- Design and user experience
- Images
- Text and font
- 5. Optimise page loading times with the aim that the home page can be loaded within 2 seconds on a 4G network. All other pages should have their performance optimised as much as possible using appropriate techniques. Submit a Google PageSpeed Insights screenshot for your home page showing the results for your application.

(65 marks)

Task 3 - Potential improvements for your web application

Part 1. Improving performance

Explain how HTTP caching and Content Delivery Networks could further improve load time.

Part 2. Adding to your design

Reflect on what you might add to extend your application.

- Suggest two alterations you could make to your web application, and
- Explain how they would improve the functional and/or visual design.

(10 marks)

(Word count guideline: 300 words)

Marking schedule

Table 4 mand 4						
ask 1, part 1. Relevant wireframes provided, 1 mark.						
Responsive design, 8 marks.	7 - 8	5.5 - 6.5	4 - 5	2.5 – 3.5	1-2	
 Explain three things your development work will include to ensure your application is mobile responsive. How would you test to see if this has been achieved? 	Identifies three development actions and explains how each action ensures your application is mobile responsive. Explanation is clearly written, refers to the wireframes and goals/requirements from the project brief and supporting HCI principles/ usability theory. Testing method is clearly and correctly described.	Identifies three development actions and explains how each action ensures your application is mobile responsive. Explanation is clearly written and refers to the wireframes. Testing method is described correctly.	· •	Identifies two or less development actions. Explanation of how each action relates to the mobile responsiveness of your application is unclear. Testing method is described only partially or is a poor choice for the stated action/s.	not clearly related to mobile responsiveness. Testing method is not described or is a poor choice for the stated	
Task 1, part 2.	7-8	5.5 – 6.5	4 – 5	2.5 – 3.5	1 - 2	
Usability, 8 marks.						
 Explain three things your development work will include to ensure your application is usable. How would you test to see if this has been achieved? 	action ensures your application is usable. Explanation is clearly written, refers to the wireframes and		Identifies three development actions and explains how each action ensures your application created is usable. Testing method is described correctly.	Explanation of how each action relates to the usability of your web application is unclear.	not clearly related to usability. Testing method is not described or is a poor choice	

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Task 1, part 3.	7 - 8	5.5 - 6.5	4 - 5	2.5 – 3.5	1 - 2
Accessibility, 8 marks.					
 Explain three things your development work will include to ensure your application is accessible. How would you test to see if this has been achieved? 	action ensures your application is accessible. Explanation is clearly written, refers to the wireframes and	•	action ensures your application created is accessible. Testing	Identifies two or less development actions. Explanation of how each action relates to the accessibility of your web application is unclear. Testing method is described only partially or is a poor choice for the stated action/s.	not clearly related to accessibility. Testing method is not described or is a poor
Task 2	8 – 10 Marks	6.5 – 7.5 Marks	5 – 6 Marks	4 – 4.5 Marks	1 – 3.5 Marks
5 requirements, total 65 marks.					
 Use valid HTML5 to implement web page headers, footers, content and navigation between the web pages. Check your HTML code using a validation tool and provide screenshots of your use/results. 	all sections of required pages, including headers, footers, content areas and navigation between pages. All of the HTML and CSS is correctly structured and formatted.	valid across all sections of required pages, including headers, footers, content areas and navigation between pages. There are only minor errors that have little or no impact on the overall functionality, accessibility and design of the application.	valid across sections of required pages, including headers, footers, content areas and navigation between pages. There are few errors that impact on the functionality, accessibility and/or design of the application. Most of the HTML and CSS is		Some HTML and CSS is used but is largely not valid and contains errors that impact significantly on the overall functionality, accessibility and design of the application. Some of the HTML and CSS is correctly structured and formatted, but is generally inconsistent with HTML5.

		4 – 5 Marks	3.5 Marks	2.5 – 3 Marks	2 Marks	1 – 1.5 Marks
					Screenshots of the use of a	Screenshots of the use of a
		•	code validator is provided for 4	· ·	code validator is provided for 2	· · · · · · · · · · · · · · · · · · ·
			, , ,	, , , ,	of the required pages:	or none of the required pages:
		• home	• home	• home	• home	• home
		• contact	• contact	• contact	• contact	• contact
		• hours	hours	hours	hours	• hours
		• menu	• menu 	• menu	• menu	• menu
		 reservations 	 reservations 	 reservations 	 reservations 	 reservations
2.	Formatting should be controlled from a separated and linked CSS	4 – 5 Marks	3.5 Marks	2.5 – 3 Marks	2 Marks	1 – 1.5 Marks
	file created using CSS3 standards.				Some pages and elements	Very few pages and elements
					within those pages are well-	within those pages are
		and styled according to good	I	formatted and styled according		formatted and styled to
		design principles.	to good design principles.	to good design principles.	satisfactory design principles.	satisfactory design principles.
		8 – 10 Marks	6.5 – 7.5 Marks	5 – 6 Marks	4 – 4.5 Marks	1 – 3.5 Marks
					Some formatting is controlled	There is some attempt to apply
		correctly and, in all instances,	controlled correctly and mostly		correctly. There are many	CSS, though controlled
		applies best practice. Includes a	applies best practice. Includes		places, however, where the CSS	incorrectly.
		linked CSS document.	an external Coo style sheet.	I	is out of place and does not	
		la alcada a sur autama di CCC atala		best practice. Includes an	adhere to best	No font properties or layout
		sheet.	Must not include any inline CSS.	external CSS style sneet.	practice.	properties are used. The lack of these affects the display.
		Must not include any inline CSS.		Must not include any inline CSS.	Font properties are considered	
		Font properties are correctly			but not complete.	Box model not used, lack
		and completely provided.	I	provided, but may not be		adversely effects the display.
				complete.	No layout properties provided	
			Most of the layout is controlled		but it does not affect the	May have used tables for
				Some of the layout is controlled	display.	display.
		position properties.		using appropriate display, float	L	
			The box model has been used		Box model not used, but no	
		r cical acmonstration of asing	throughout the application.		adverse effects on the display.	
		the box model confectly	in oughout the application.			
		throughout the application.				

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3.	Follow accessibility guidelines where appropriate. Consider: Headings and alt text Style and colour	ccessibility guidelines propriate. Consider: and alt text 4 – 5 Marks The application has the most	3.5 Marks The application has a high level	used for layout. 2.5 – 3 Marks The application has a high level	2 Marks The application is somewhat	1 – 1.5 Marks The application is accessible in some areas where there has
•	ARIA	terms of its use of headings, forms and alt text. In all sections of the application there is proper use of headings for organising content and alt text is sufficiently detailed, making it highly accessible for	use of headings, forms and alt text. In almost all sections of the application there is proper use of headings for organising content and alt text is sufficiently detailed, making it	use of headings, forms and alt text. In many sections of the application there is proper use of headings for organising content and alt text is used, making it highly accessible for many possible users.	headings, forms and/or alt text. Headings are used and/or alt text is provided. This makes is more accessible for some users, though some may not be able to use it due to a lack of accessibility that could	been an attempt to use headings, forms and/or alt text, though many may not be able
		4 – 5 Marks	3.5 Marks	2.5 – 3 Marks	2 Marks	1 – 1.5 Marks
		terms of style (e.g., font type, size, margins, spacing) and use of colour, making it highly accessible for the widest range	of accessibility in terms of style (e.g., font type, size, margins, spacing) and use of colour across all its pages making it highly accessible for a wide	spacing) and use of colour across most of its pages, making it highly accessible for many possible users.	accessible in terms of style (e.g., font type, size, margins, spacing) and use of colour across some of its pages, though some may not be able	The application is accessible in some areas where style has been applied, though many may not be able to use it due to a lack of accessibility that could otherwise be provided for through better use of style.

		4 – 5 Marks	3.5 Marks	2.5 – 3 Marks	2 Marks	1 – 1.5 Marks
		1	The application has a high level		The application is somewhat	The application is accessible in
			,	accessible in terms of the	accessible in terms of the	some areas. To a limited degree
		· · · · · · · · · · · · · · · · · · ·	1	1 -	ability for a user to use it with a	•
		use it with a keyboard alone,	'	keyboard alone, and in a logical	1 *	with a keyboard alone.
				way. Most items in pages adopt		
		adopt ARIA roles and landmarks			landmarks to identify	
		to identify navigation menu,	· ·	identify navigation menu,	navigation menu, headers and	
			navigation menu, headers and		the main content.	
		All users who rely on a screen		Many users who rely on a	Many users who rely on a	
		reader would easily understand	1		screen reader may struggle to	
		all content presented on every		issue with understanding the	interpret some of its important	
		page, and its layout.	_		content and/or page layout.	
				layout, though there are some		
				pages they may find		
				difficult to understand.		
4.	Apply responsive design principles	4 F Maulta	2 F Mayles	2.5. 2.84el	2 Mayles	1 1 5 Mayles
	to make the web application	4 – 5 Marks	3.5 Marks	2.5 – 3 Marks	2 Marks	1 – 1.5 Marks
	mobile-ready. Consider:	Viewport perfectly configured	Viewport well configured to	Viewport well configured in		Viewport configured in some
	 Design and user 	to allow browsers to adjust	allow browsers to adjust page		ke . c	
1		to anoth brothocio to adjust	allow browsers to adjust page	some areas to allow browsers	Viewport configured to allow	ways (though not accurately) to
	experience	page dimensions and scaling to			browsers to adjust some page	allow browsers to adjust at
	experience • Images	page dimensions and scaling to	dimensions and scaling to suit the device, so most pages can	to adjust page dimensions and scaling to suit the device, so		
	• Images	page dimensions and scaling to	dimensions and scaling to suit the device, so most pages can	to adjust page dimensions and	browsers to adjust some page	allow browsers to adjust at
	•	page dimensions and scaling to suit the device, so all pages can be easily resized by the user.	dimensions and scaling to suit the device, so most pages can be easily resized by the user.	to adjust page dimensions and scaling to suit the device, so	browsers to adjust some page dimensions and scaling to suit the device. There are a few	allow browsers to adjust at least one page's dimensions and scaling to suit the device.
	• Images	page dimensions and scaling to suit the device, so all pages can be easily resized by the user. Menu/navigation is suitably	dimensions and scaling to suit the device, so most pages can be easily resized by the user. Menu/navigation is mostly	to adjust page dimensions and scaling to suit the device, so most pages can be resized by the user.	browsers to adjust some page dimensions and scaling to suit the device. There are a few pages that can be resized by	allow browsers to adjust at least one page's dimensions and scaling to suit the device. No evidence of responsive
	• Images	page dimensions and scaling to suit the device, so all pages can be easily resized by the user. Menu/navigation is suitably responsive and displays well on	dimensions and scaling to suit the device, so most pages can be easily resized by the user. Menu/navigation is mostly responsive and displays well on	to adjust page dimensions and scaling to suit the device, so most pages can be resized by the user. There is evidence that	browsers to adjust some page dimensions and scaling to suit the device. There are a few	allow browsers to adjust at least one page's dimensions and scaling to suit the device. No evidence of responsive design techniques being
	• Images	page dimensions and scaling to suit the device, so all pages can be easily resized by the user. Menu/navigation is suitably responsive and displays well on desktop and mobile screen	dimensions and scaling to suit the device, so most pages can be easily resized by the user. Menu/navigation is mostly responsive and displays well on desktop and mobile screen	to adjust page dimensions and scaling to suit the device, so most pages can be resized by the user. There is evidence that responsive design has been	browsers to adjust some page dimensions and scaling to suit the device. There are a few pages that can be resized by	allow browsers to adjust at least one page's dimensions and scaling to suit the device. No evidence of responsive
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		4 – 5 Marks	3.5 Marks	2.5 – 3 Marks	2 Marks	1 – 1.5 Marks
	alternative images provided for smaller viewports. There is no instance on any page where an image feels 'out of place' or designed for desktop.	on a page where an image feels slightly 'out of place' or	may be a few instances on a page where an image feels 'out of place' or designed for	Some images scale well. There are several instances where an image feels 'out of place' or designed for desktop, which has some impact on the user experience.	Attempt has been made to scale images, but on mobile devices they appear 'out of place' or designed for desktop only.	
		4 – 5 Marks	3.5 Marks	2.5 – 3 Marks	2 Marks	1 – 1.5 Marks
		All text is legible for mobile visitors without any need for 'pinch and zoom'. Text scales properly within the viewport.	Almost all text is legible for mobile visitors without any need for 'pinch and zoom'. Text mostly scales properly within the viewport.		In some areas of the application text is legible for mobile visitors. User may need to 'pinch and zoom' in many cases.	Some attempt has been made to make text legible but user needs to 'pinch and zoom' to make text legible.
5.	Optimise page loading times with the aim that the home page can be	4 – 5 Marks	3.5 Marks	2.5 – 3 Marks	2 Marks	1 – 1.5 Marks
	loaded within 2 seconds on a 4G network. All other pages should have their performance optimised as much as possible using appropriate techniques. Submit a	screenshot provided for the home page of your application. Home page loads within 2	Google PageSpeed Insights screenshot provided for the home page of your application. Home page loads within 3 seconds on a 4G network	screenshot provided for the	Google PageSpeed Insights screenshot is not provided for the home page of your application, or the information is not clear. Home page loads within 6 seconds on a 4G network.	Google PageSpeed Insights screenshot is not provided for the home page of your application. Home page loads within 8 seconds on a 4G network.
Tasl	k 3, part 1.	4 – 5 Marks	3.5 Marks	2.5 – 3 Marks	2 Marks	1 – 1.5 Marks
Imp	roving performance, 5 marks.					
Deliv	very Networks could further rove load time.	accurately how HTTP caching and Content Delivery Networks	Explains clearly, logically, and accurately how HTTP caching and Content Delivery Networks could further improve load time	Explains accurately how HTTP caching and Content Delivery Networks could further improve load time	Attempts to explain how HTTP caching and Content Delivery Networks could further improve load time but is not clear and/or parts are inaccurate.	Little or no attempt to explain how HTTP caching and Content Delivery Networks could further improve load time is made.

	with reference to appropriate standards/technology.				
Task 3, part 2.	4 – 5 Marks	3.5 Marks	2.5 – 3 Marks	2 Marks	1 – 1.5 Marks
Adding to your design, 5 marks.					
 Explain how they would improve the functional and/or visual design. 	Explains how each alteration improves the functional and/or visual design with reference to appropriate standards/technology.	alterations to your web application. Explains how each alteration improves the functional and/or visual design. Explanation is written in a clear and logical style. Technical	application. Explains how each alteration improves the functional and/or visual design.	alterations to your web application. Attempts to explain how each alteration improves the functional and/or	States one or no proposed alterations to your web application. Little or no attempt to explain how each alteration improves the functional and/or visual design is made.