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Student  
Assessment Guide:

ICTWEB519 Develop complex web page layouts

ICTWEB520 Develop complex cascading style sheets

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# 1. Assessment Information

## A. Purpose of assessment

This assessment will develop your skills and knowledge required to create a web page layout with cascading style sheets (CSS) to suit a range of browsers and devices.

## B. What you are required to do

For this assessment, you are required to complete seven tasks:

* Task A – Perform knowledge test
* Task B – Preparation of the web pages
* Task C – Develop web pages and CSS
* Task D – Validate CSS
* Task E – Cross-browser test website
* Task F – Validate accessibility
* Task G – Confirmation of web design

All tasks of this assessment require you to use the provided case study information relating to Computer Force.

## C. Competencies being assessed

**Elements**

To achieve competency in this unit you must demonstrate your ability to:

1. Prepare to develop web page layout
2. Determine CSS requirements
3. Develop CSS and web pages
4. Test and validate web page layout
5. Test and validate CSS and web pages
6. Finalise web page layout

**Performance Evidence**

Evidence of the ability to:

* Develop at least two complex website layouts, styled and formatted using cascading style sheets(CSS) according to technical requirements
* Layout and style page elements to suit a variety of devices
* Test web page layouts in at least two different browsers and at least two different devices
* Validate web page layouts against industry and organisational standards and procedures.

**Knowledge Evidence**

You must be able to demonstrate knowledge of the following:

* Principles of web site design and web scripting design
* Principles and techniques in web site design, including:
  + Hypertext markup language (HTML)
  + Extensible hypertext markup language (XHTML)
  + Cascading style sheets (CSS)
  + Hypertext transfer protocol (HTTP) and its application to CSS
  + Amending browser incompatibilities
  + Web libraries
  + Web frameworks
* Industry procedures, policies and standards applicable to developing web page layouts
* Web page testing and debugging procedures
* Accessibility standards, including the World Wide Web Consortium (W3C) standards and their application to web design
* Cyber security procedures and protocols applicable to developing web page layouts
* Organisational procedures applicable to developing web page layouts and CSS
* CSS rules and standards impact on document styling and layout
* Methods in applying style sheets to web pages
* Techniques to amend browser incompatibilities

For further information on the competencies of this unit, please refer to: [https://training.gov.au/Training/Details/ICTWEB519](https://training.gov.au/Training/Details/ICTWEB513)https://training.gov.au/Training/Details/ICTWEB520

## D. Important resources for completing this assessment

To complete this assessment, please refer to the following resources provided on Moodle:

* ICTWEB519 learner guide
* ICTWEB519 self-study guide
* ICTWEB520 learner guide
* ICTWEB520 self-study guide
* ICTWEB519\_520 Case study
* ICTWEB519\_520 Marking Guide
* Additional student assessment information

## E. A note on plagiarism and referencing

Plagiarism is a form of theft where the work, ideas, inventions etc. of other people are presented as your own.   
  
When quoting or paraphrasing from a source such as the Internet, the source must be recognised. If you are quoting a source, make sure to acknowledge this by including “quotation marks” around the relevant words/sentences or ideas. Note the source at the point at which it is included within your assessment, such as by using a citation. Then list the full details of the source in a ‘references’ section at the end of your assessment.

All sources used for your assessment should be detailed in a ‘references’ section. It is advisable to never copy another person’s work.

## G. Instructions for completing this assessment

Answer the questions below using the spaces provided:

* Answer all parts of each question
* Use your own words and give examples wherever possible
* The quality of your answer is more important than how long it is
* Enter your answers in this document

You may use various sources of information to inform your answers, including your resources provided by ACBI, books, and online sources. You must acknowledge and cite your sources.

**Submission via Moodle**

Please refer to the “Instructions for Submitting Your Assessment” found within the unit course page on Moodle.

*NOTE: Please take care to follow all instructions listed. Assessments uploaded with a draft status on Moodle may not be graded.*

# 2. Assessment Coversheet

| **Candidate Name:** | Sumitra Jumrern | | |
| --- | --- | --- | --- |
| **Student ID:** | #ACBI20220791 | | |
| **Contact Number:** | 0422942484 | | |
| **Email:** | sumitra0420@gmail.com | | |
| **Trainer / Assessor Name:** | Leonard Sui | | |
| **Qualification:** | ICT50220 Diploma of Information Technology – Front end web development | | |
| **Units of Competency:** | ICTWEB519 Develop complex web page layout  ICTWEB520 Develop complex cascading style sheets | | |
| **Assessment Tasks:** | ☐ Task A – Perform unit knowledge test  ☐ Task B – Preparation of the web pages  ☐ Task C – Develop web pages and CSS  ☐ Task D – Validate CSS  ☐ Task E – Cross-browser test website  ☐ Task F – Validate accessibility  ☐ Task G – Confirmation of web design | | |
| **Due Date:** | 12/03/2023 | **Date Submitted:** | 07/03/2023 |
| **Declaration:** | I have read and understood the following information at the beginning of this assessment guide (please tick): | | |
| ☐ Assessment information  ☐ Submitting assessments  ☐ Plagiarism and referencing | | |
| I declare this assessment is my own work and where the work is of others, I have fully referenced that material. | | |
| **Name (please print):** | Sumitra Jumrern | | |
| **Candidate signature:** | Sumitra Jumrern | | |
| **Date:** | 07/03/2023 | | |

# 3. Assessment Questions

## Task A - Perform knowledge test

| **A1.** Explain in a short paragraph what the following web design principles. Answer each principle in 30 to 50 words. |
| --- |
| *Write your answer here*   | **Web design principles** | **Explanation of the principle** | | --- | --- | | Responsive | Responsive web design is a web development approach that creates dynamic changes to the appearance of a website, depending on the screen size and orientation of the device being used to view it. Responsive web design is one approach to the problem of designing for the multitude of devices available to customers, ranging from tiny phones to huge desktop monitors. | | Accessibility | Web accessibility is the practice of making websites usable for all visitors, including those with disabilities, impairments, and limitations. Web accessibility involves following certain design principles which ensure that people who experience difficulties or limitations have the same or a similar experience as those who do not. Accessibility is an important goal for websites, as it gives all users equal access to your content. | | Simplicity | Website simplicity – or simplifying your website – means making it easy for visitors to understand, use, and interact with your website. Simplifying your website helps people find what they need quickly and interact with your business efficiently. | | Navigation | On a website, a navigation menu is an organized list of links to other web pages, usually internal pages. Navigation menus appear most commonly in page headers or sidebars across a website, allowing visitors to quickly access the most useful pages. | | Load time | Load time in web design refers to the amount of time it takes for a website or web page to fully load and become usable. It impacts the user experience and overall satisfaction with a website. A fast load time is crucial as users expect quick loading and slow load times can lead to high bounce rates. Load time is affected by factors such as image size, number of elements, external scripts, and internet connection speed. Improving load time leads to a better user experience. | |

| **A2.** Explain in a paragraph what each of the following W3C standards are used for in web design, and the current versions of each: Paragraph word-limit (30-50 words) |
| --- |
| *Write your answer here*   | **W3C** **Standards** | **Explanation** | | --- | --- | | Hypertext Mark-up Language (HTML) | HTML is a language used to create web pages and define their structure and content. It uses tags and attributes to identify different elements, such as text, images, links, and forms, and to format and style the content. HTML works with other web technologies, like CSS and JavaScript, to create dynamic and interactive web pages. The latest version of HTML is HTML5, which includes new features and capabilities. | | Cascading Style Sheets (CSS) | CSS works by defining styles for different HTML elements, such as headings, paragraphs, and lists, as well as for specific attributes like font size, color, and spacing. These styles can be applied globally to all elements on a page, or selectively to specific elements, allowing developers to create customized designs and layouts. | | Web Content Accessibility Guidelines (WCAG) | WCAG provides guidance on how to design and develop web content that is perceivable, operable, understandable, and robust for all users, including those with disabilities. This includes guidance on how to design web content that is compatible with assistive technologies, such as screen readers, which people with disabilities use to access the web. | | Extensible hypertext markup language | XHTML is a markup language that is an extension of HTML (Hypertext Markup Language) and is designed to work with XML (Extensible Markup Language). XHTML was developed to improve the interoperability of web documents across different platforms and devices.  XHTML combines the syntax of XML with the semantics of HTML, which allows developers to create web pages that are well-formed and easily readable by both humans and machines. XHTML is designed to be modular, so developers can create custom document types that fit their specific needs. | | Web libraries | A library is a collection of reusable, compiled, and tested code that can facilitate the automation or augmentation of application functionalities. It's designed to support both the code developer and code compiler during the build process and the running of the application | | Web framework | A web framework is a software framework that provides a standardized way to build and deploy web applications. A web framework typically includes a set of libraries, tools, and templates that help developers create web applications more quickly and efficiently.  Web frameworks provide a structure for organizing code, handling common tasks like routing and input validation, and integrating with databases, web servers, and other components. They often include features for handling authentication, authorization, and security, as well as support for creating and consuming web services.  Web frameworks come in many different programming languages, including Python (Django, Flask), Ruby (Ruby on Rails), PHP (Laravel, Symfony), JavaScript (Angular, React), and many others. Some web frameworks are designed for specific purposes, such as content management systems (CMS) or e-commerce platforms. | |

| **A3. Explain in a short paragraph what the role of Hypertext Transfer Protocol (HTTP) plays in CSS and communication across the internet. Paragraph word-limit (30-50 words)** |
| --- |
| HTTP (Hypertext Transfer Protocol) is a communication protocol used for transmitting data on the World Wide Web. It defines the rules for sending and receiving information between a client (e.g. web browser) and a server (e.g. website). When a user requests a web page, the browser sends an HTTP request to the server hosting the website. The server then responds with the requested page, along with additional information such as images, videos, and stylesheets, all transmitted using HTTP. |

| **A4. Explain in a short paragraph what cross-browser testing is. Explain in 30 to 50 words.** |
| --- |
| Cross-browser testing helps to ensure that websites and web applications are compatible with the most popular browsers, such as Google Chrome, Mozilla Firefox, Microsoft Edge, Apple Safari, and others. The goal is to identify and fix any compatibility issues and make sure that the website looks and functions the same for all users, regardless of which browser they use. |

| **A5. Briefly explain the following policies, procedures and standards which are used to develop web pages and CSS:**   * **Copyright** * **Intellectual property** * **Accessibility** * **Graphics**   **Answer must be between 150-200 words.** |
| --- |
| **Copyright**: Copyright is a legal concept that grants exclusive rights to the creators of original works, such as text, images, and other creative content. In the context of web design, copyright laws apply to original content, such as images, videos, and text, used on a website. To comply with copyright laws, designers should obtain permission or licenses for any copyrighted material they use on their website.  **Intellectual Property**: Intellectual property (IP) refers to creations of the mind, such as inventions, literary and artistic works, symbols, names, and designs, which are protected by law. In web design, IP may include logos, trademarks, and patents. Designers should be aware of IP laws when creating a website to avoid infringing on others' rights.  **Accessibility**: Web accessibility refers to the practice of designing web pages so that they can be used by people with disabilities. Accessibility standards, such as the Web Content Accessibility Guidelines (WCAG), provide guidelines for designing web pages that can be accessed by people with visual, auditory, or motor disabilities. Designers should follow these standards to ensure that their websites are accessible to everyone.  **Graphics**: Graphics are visual elements, such as images, icons, and illustrations, used on a website to enhance the user experience. Designers should use high-quality graphics that are optimized for web use to ensure that they load quickly and look good on all devices. They should also ensure that graphics are used appropriately and do not infringe on copyright or intellectual property rights. |

| **A6. Briefly explain the following:**   1. **Web testing procedure** 2. **Debugging procedure**   **Answer each of the above between 100-150 words.** |
| --- |
| **Web testing procedure** involves a series of tests designed to assess a website's functionality, usability, and performance. The testing can be carried out manually or automated and includes unit testing, integration testing, system testing, and acceptance testing. The testing process ensures that the website meets its requirements and works as expected. It also helps to identify any bugs, issues or inconsistencies that could affect the user experience. Web testing is crucial to ensure that the website is user-friendly, reliable, and performs well across different browsers and devices.  **Debugging procedure** is a process of identifying and fixing errors or bugs in the website's code. It involves analyzing the code, tracing the code flow, and using debugging tools to pinpoint the problem areas. The debugging can be carried out manually or automated, and at different stages of the development cycle. The aim of debugging is to ensure that the website's code is clean, efficient, and error-free. The procedure is essential to maintain the website's functionality, performance, and security. Debugging tools commonly used include integrated development environments (IDEs), code editors, and browser extensions. |

| **A7. Answer the following: Answer within 130-150 words.**   1. **Explain cyber security procedures and protocols to design website layout? Answer must be between 50-100 words.** 2. **Write the steps to design protocols and procedures.** |
| --- |
| a) Cybersecurity procedures and protocols are essential to ensure the security of a website. The procedures may include access control, encryption, vulnerability assessment, and incident response planning. Access control ensures that only authorized individuals can access the website's data and resources. Encryption protects sensitive data by transforming it into an unreadable format that can only be deciphered with the proper decryption key. Vulnerability assessment helps identify weaknesses in the website's security and take corrective action to fix them. Incident response planning outlines the steps to be taken in case of a security breach or cyber-attack. By implementing these cybersecurity procedures and protocols, a website can enhance its security and protect itself and its users from potential threats.  B) To design protocols and procedures for a website, the following steps may be taken:   1. Conduct a risk assessment to identify potential security threats and vulnerabilities 2. Develop security policies and procedures that address these risks and vulnerabilities 3. Implement security controls, such as access control, encryption, and firewalls 4. Train staff on proper security practices and procedures 5. Monitor and test the security controls regularly to ensure they are effective 6. Have an incident response plan in place in case of a security breach or cyber-attack. These steps will help ensure that the website is secure and protected from potential threats. |

| **A8. Answer the following: Answer within 100-150 words**   1. **What are the methods used to designing website?** 2. **Explain the following website structures:**  * **Hierarchical model** * **Sequential model** |
| --- |
| a) There are several methods used in designing a website, including wireframing, prototyping, visual design, and development. Wireframing involves creating a basic layout of the website, including its structure and content. Prototyping involves creating a functional model of the website to test its usability and functionality. Visual design involves creating the website's aesthetic, including its color scheme, typography, and imagery. Development involves coding the website's functionality and integrating it with other technologies, such as databases or e-commerce platforms.  b)  Hierarchical model: In a hierarchical website structure, content is organized in a tree-like structure, with main categories at the top and subcategories beneath them. It is a commonly used structure for websites with a lot of content or information, such as e-commerce sites or educational websites. The hierarchical model allows for easy navigation and helps users find information quickly.  Sequential model: The sequential website structure presents information in a linear, sequential order. It is commonly used for websites that tell a story or guide users through a process, such as instructional or tutorial websites. The sequential model is effective for presenting information in a logical and easy-to-follow manner, but it can be limiting in terms of the types of content that can be presented. |

| **A9. Briefly explain the following methods which are used to add style sheet with web pages:**   * **Inline** * **Embedded**   **Answer each of the methods in 40-80 words.** |
| --- |
| **Inline**: Inline style sheets are applied directly to individual HTML elements using the "style" attribute. This method is useful for making small, specific style changes to individual elements, such as font size or color. However, using inline styles can be time-consuming if applied to a large number of elements, and can make the code difficult to read and maintain.  **Embedded**: Embedded style sheets are included within the HTML head section using the "style" tag. This method allows for the creation of a set of styles that can be applied to multiple elements throughout the HTML document. Embedded styles are useful for maintaining consistency throughout the website's design, but can still result in large amounts of code, making it difficult to manage in large websites. |

| **A10. Answer the following:**   1. **Briefly explain CSS rules. Answer must be between 30-50 words.** 2. **How does CSS standards impact web designing? Answer must be between 30-50 words.** |
| --- |
| a) CSS rules are used to define the visual style and layout of HTML elements on a web page. Each rule consists of a selector and a declaration block, which contains one or more property-value pairs that specify the desired style for the selected elements.  b) CSS standards impact web designing by providing guidelines for the creation of web pages that are accessible, responsive, and maintainable. Adhering to CSS standards ensures that websites are compatible with different browsers and devices, providing a consistent user experience. Additionally, CSS standards provide a framework for creating modular, reusable code, making it easier to maintain and update websites over time. |

**Case Study**

**Please read the case study provided for this unit to complete the following tasks.**

## Task B – Preparation of the web pages

**You need to research the internet and go through the scenario.**

In this activity, you need to conduct a meeting with the management to get the information about the legislation, standards and procedures required to develop web pages. You also need to highlight the main section of the web page design and layout.

You will act as the web designer who will provide information about the web page development and will provide information about the legislation, standards and procedures which needs to be followed to develop the web pages.

Apart from highlighting the legislation, standards and procedures, you need to highlight the main sections of web page design and layout. You need to get confirmation form the management that the legislation, procedures and standards selected are applicable to web page development.

Your trainer will act as the management to whom the information about the legislative, standards and procedures for developing web pages will be delivered. They will ask the questions on designing web pages layout and meeting the legislation. They will provide the confirmation about the selected legislation, standards and procedures selected to develop web pages.

In the meeting, you need to discuss the following:

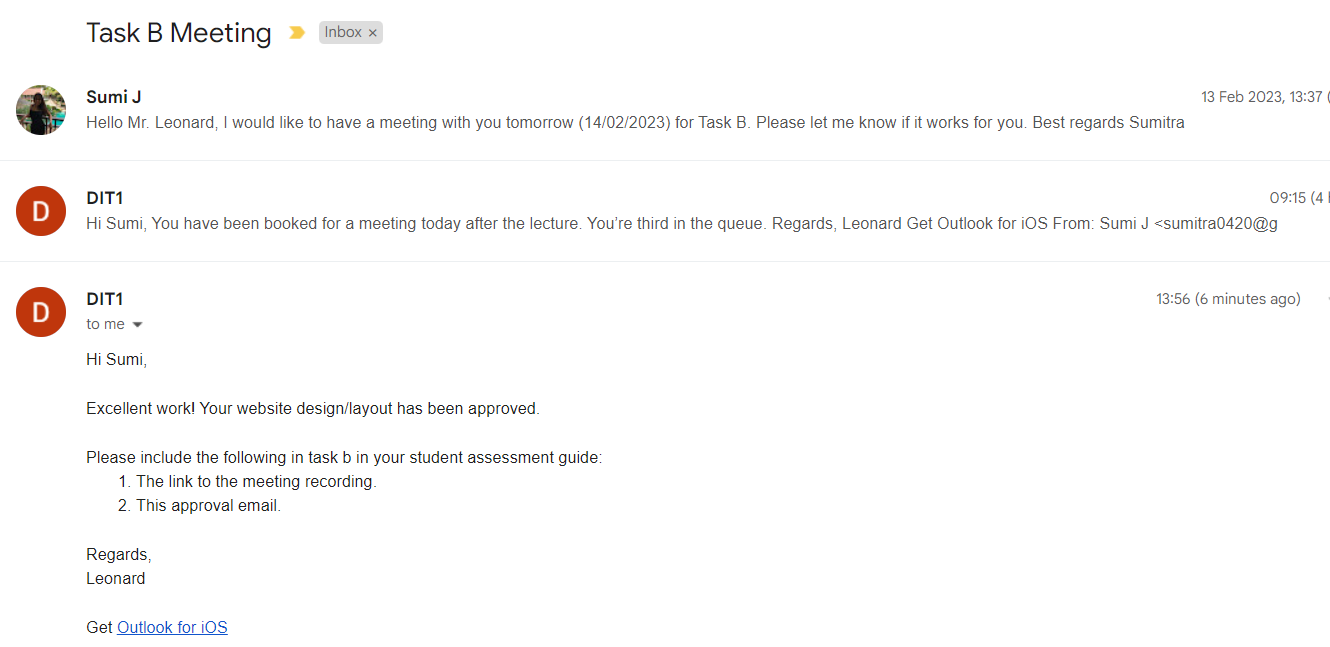
* Organisational requirements from developing web pages layout
* Outline main section of web pages
* Legislation, standards and procedures required to develop web pages layout
* Discuss if legislation, standards and procedures are meeting web page requirements or not
* Get the confirmation/approval about the web page design/layout

You need to complete the meeting in 7-10 minutes. Your trainer will observe your performance and complete the following performance checklist. You also need to complete the following meeting minutes template and write the information related to the meeting discussion.

Email the completed meeting minutes document to your assessor for approval. Once approved, screenshot the assessor’s approval below the meeting minutes.

**Meeting minute template**

| **Minutes of Meeting**  Overall is ok. Need to add a privacy policy to meet No.4 . Email approval and Zoom video are attached below.  **Meeting Objective:**  Get the information about the legislation, standards, and procedures required to develop web pages. You also need to highlight the main section of the web page design and layout.  **Attendees:**  Management  **Venue:**  Room 205  **Date:**  14/02/2023 | | | |
| --- | --- | --- | --- |
| **No** | **Points Discussed** | **Actions Suggested** | **Target Date** |
| **1** | Organisational requirements from developing web pages layout | * Comply with the website requirements specification stated in the case study. * Analyse the website specification. * Discuss any questions, issues or possible gaps in the requirement specification | **14/03/2023** |
| **2** | Outline main section of web pages | Header, Menu, Main, Aside, Footer | **14/03/2023** |
| **3** | Legislation, standards and procedures required to develop web pages layout | * Privacy policy - privacy policy is a legal document that outlines the ways in which a website collects, uses, stores, and shares personal information from its users. It is typically required by law for websites that collect personal information, such as email addresses or payment information. * Copyright content - Copyright applies to a wide range of original works, including text, images, videos, music, and software. In the case of web design, this includes the layout, design, and visual elements of a website, as well as any original text, images, or other content included on the site. * Accessibility - To ensure that your website meets the WCAG standard, it must follow the four POUR design principles:Perceivable, Operable, Understandable, Robust * Website needs to be interactive - An interactive website is one that allows users to engage with the site and its content in a dynamic way. This can include a variety of features, such as:   Navigation menus, User input forms   * Website can store vast data - referred to as a database-driven website. This type of website uses a database to store data, such as user information, product catalogs, or other types of content, and then retrieves that data dynamically to display it on the website. | **14/03/2023** |
| **4** | Discuss if legislation, standards and procedures are meeting web page requirements or not | Yes, they do because web page are designed to be responsive for most desktop and mobile devices. The UX is also accessible for all users. | **14/02/23** |
| **5** | Get the confirmation/approval about the web page design/layout | **Approved (Please find email confirmation & Zoom record below)** | **14/02/23** |

******

[***video1600714699.mp4***](https://1drv.ms/v/s!AuSlsAH_WBxe61px5kVByvnDZxXZ?e=2182MV)

## Task C – Develop web pages and css

**Perform the following task:**

Using a development tool of your choice, create a website project and name it as: computerForce. The project should contain the following HTML documents having the following filenames:

| **HTML Document** | **Filename** | **Page Title** |
| --- | --- | --- |
| Home | index.html | Home |
| Products | products.html | Products |
| Register | register.html | Register |
| About | about.html | About |

Create an external style sheet with the filename: style.css. Link this to each of the web pages.

Apply the layout, colour and font styling to each of the web pages including the header, menu, aside, and footer sections as specified in the design brief.

Once you have completed this task, submit the website project as evidence that you have meet the requirements of this task.

## Task D – Validate CSS

| **D1. Validate CSS**  **Use the W3C CSS Validation Service located at** [**https://jigsaw.w3.org/css-validator/**](https://jigsaw.w3.org/css-validator/) **to validate the CSS file for the website. If any validation errors occur, you need to resolve these issues until there are no validation errors.**  **Provide a screenshot of the validator output report below:** |
| --- |
|  |

## Task E – Cross-browser test website

Use the BrowserStack cross-browser validation tool located at [https://www.browserstack.com](https://www.browserstack.com/) to validate all web page for cross-browser issues for the latest version of each of the following web browsers:

* Chrome
* Firefox
* Microsoft Edge for Windows Users, Safari for Mac Users

After testing the website on browsers, you also need to test the website on the following devices to check if it is compatible with the devices or not:

* Computer
* Laptop
* Smart phone
* Tablet

If any issues are identified in any of the web pages you need to document each issue using the following template in a word processor.

Once the issues are documented, you need to debug the web pages and confirm that the web pages are secure. You need to ensure that website is following the cyber security protocols and procedures in relation with the web pages layout.

***Web page where error occurred***Table

Description automatically generated

Figure 4: Cross-browser issues template

Each issue should be given a unique identifier number so it can be identified easily. The web browser name/version plus details of the issue should be recorded. You should capture a screenshot of each issue which should be saved as the issue number and annotate where the problem is located.

You are required to copy a screenshot of each of the four web pages for each of the three web browsers and at least two devices (20 screenshots in total) to a word document with the title of “XXX\_ICTWEB519\_520\_crossBrowserTest” where XXX is your student id. Furthermore, if any issues are identified then you should capture a corresponding annotated screenshot of the issue and place this in the XXX\_ICTWEB519\_520\_crossBrowserTest. Then you should submit the XXX\_ICTWEB519\_520\_crossBrowserTest document as evidence that you have meet the requirements of this task.

## Task F – Validate accessibility

In this task you are to undertake WCAG 2.0 accessibility checks on each of the four web pages to Level AA using an accessibility testing tool of your choice.

For each web page, you must undertake an accessibility test, and then resolve any identified accessibility issues, until there are no web accessibility issues for that web page.

You are required to copy a screenshot of the web accessibility report outcomes for each of the four web pages. The screenshot should clearly show the web page and the results. These screenshots should be copied to a word document with the title of “XXX\_ICTWEB519\_520\_validateAccessibility” where XXX is your student id. Once you have completed this task you should submit this as evidence that you have meet the requirements of this task.

## Task G – Confirmation of web design

In this activity, you need to conduct a meeting with the manager to discuss the validation and debugging of the website and browser test results. You need to obtain feedback from the manager regarding the website accessibility and test results of the browsers.

You will act as the web designer, you will provide the information about the test results, debugging of web pages and accessibility of the web pages. You need to obtain the feedback from the manager that the website is designed according to the organisational requirements. You also need to highlight how the changes will be made in the web page layouts and obtain sign-off from the manager.

Your trainer will act as the manager to whom the test results and accessibility report will be submitted. He/she will ask provide feedback on changes to make in the web page layout and will provide sign-off and confirmation for the web page layout.

In the meeting, you need to discuss the following:

* Discuss website accessibility
* Discuss the test results of browsers
* Discuss how issues related to browsers will be rectified. For example, some elements work on one browser but does not work on the other.
* Discuss how web pages will be changed to suit different devices

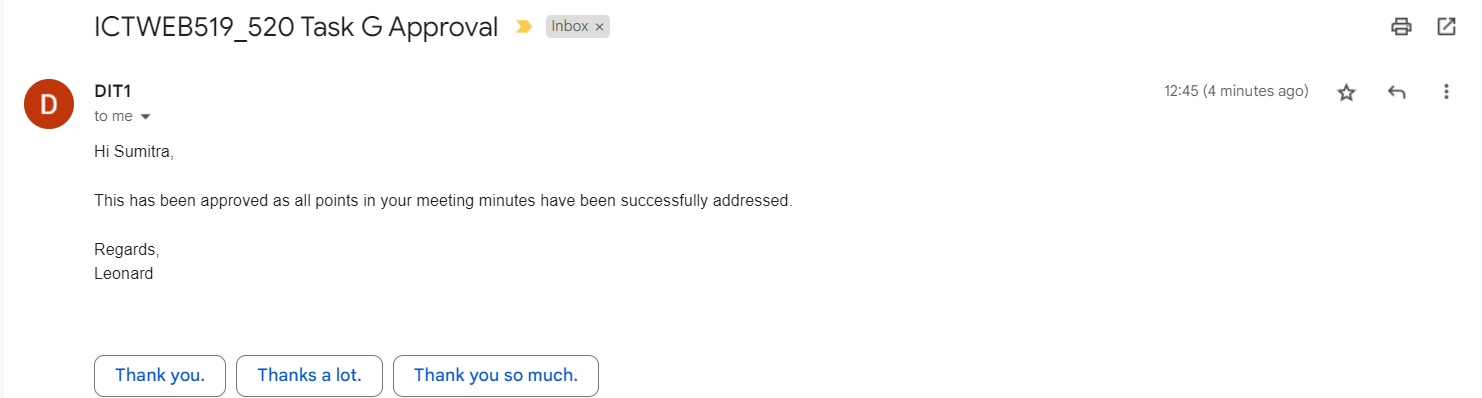
You need to complete the meeting in 7-10 minutes. Your trainer will observe your performance and complete the following performance checklist. You also need to complete the following meeting minutes template and write the information related to the meeting discussion.

Email the following files to your assessor:

* Meeting minutes
* Website files. Rather than attaching the files in your email, save the compressed file of your project folder in your cloud storage. Then provide the link to your trainer.
  + The trainer will provide you feedback on the web page layout and design. They will also confirm to you the required changes on the web pages. If there are no more changes, then the trainer will approve the website.

**Meeting minute template**

| **Minutes of Meeting**  Website have been approved. Email approval and Zoom are attached below.  **Meeting Objective:**  Discuss the validation and debugging of the website and browser test results  **Attendees:**  Management  **Venue:**  Room 205  **Date:**  06/03/2023 | | | |
| --- | --- | --- | --- |
| **No** | **Points Discussed** | **Actions Suggested** | **Target Date** |
| **1** | Discuss website accessibility | **This point has been addressed.** | **06/03/2023** |
| **2** | Discuss the test results of browsers | **This point has been addressed.** | **06/03/2023** |
| **3** | Discuss how issues related to browsers will be rectified. For example, some elements work on one browser but does not work on the other. | **This point has been addressed.** | **06/03/2023** |
| **4** | Discuss how web pages will be changed to suit different devices | **This point has been addressed.** | **06/03/2023** |



[video1152239783.mp4](https://1drv.ms/v/s!AuSlsAH_WBxe62LZwme4iEudsYMt?e=ifwRku)

# 4. Candidate Self Checklist

**Candidate Self Checklist for Tasks A - G**

| **Candidate name:** | **Sumitra Jumrern** | |
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| **Unit of Competency:** | ICTWEB519 Develop complex web page layout  ICTWEB520 Develop complex cascading style sheets | |
| **Instructions:**  *Place a tick ‘✓ ’ in the Yes (“Y”) column for each question you have completed all parts for.* | | |
| **Task A – Perform knowledge test.** | | |
| **Did you:** | | **Y**  **✓** |
| ***A1:***Explain in a short paragraph what the following web design principles. Answer each principle in 30 to 50 words.  *Responsive, Accessibility, Simplicity, Navigation, Load time* | | **✓** |
| ***A2:***Explain in a paragraph what each of the following W3C standards are used for in web design, and the current versions of each: Paragraph word-limit (30-50 words)  *Hypertext Mark-up Language (HTML), Cascading Style Sheets (CSS), Web Content Accessibility Guidelines (WCAG), Extensible hypertext markup language, Web libraries, Web framework* | | **✓** |
| ***A3:***Explain in a short paragraph what the role of Hypertext Transfer Protocol (HTTP) plays in CSS and communication across the internet. Paragraph word-limit (30-50 words) | | **✓** |
| ***A4:***Explain in a short paragraph what cross-browser testing is. Paragraph word-limit (30-50 words) | | **✓** |
| ***A5:***Briefly explain the following policies, procedures and standards which are used to develop web pages and CSS between 150 to 200 words:  *Copyright, Intellectual property, Accessibility, Graphics* | | **✓** |
| ***A6:***Briefly explain web testing procedure and debugging procedure between 100 to 150 words. | | **✓** |
| ***A7:***Answered the following within 130 to 150 words:   1. *Explain cyber security procedures and protocols to design website layout?* 2. *Write the steps to design protocols and procedures.* | | **✓** |
| ***A8:***Answered the following within 100 to 150 words:   1. What are the methods used to designing website? 2. Explain the following website structures:  * Hierarchical model * Sequential model | | **✓** |
| ***A9:***Briefly explain the following methods which are used to add style sheet with web pages:   * Inline * Embedded   Answer each of the methods in 40-80 words. | | **✓** |
| ***A10:***Answer the following:   1. Briefly explain CSS rules. Answer must be between 30-50 words. 2. How does CSS standards impact web designing? Answer must be between 30-50 words. | | **✓** |

| **Task B – Preparation of the web pages** | |
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| **Did you perform the following in the meeting?** | **Y**  **✓** |
| Discussed legislation, standards and procedures required to develop web pages layout. | **✓** |
| Highlighted organisational requirements from developing web pages layout | **✓** |
| Highlighted main sections of web page design | **✓** |
| Outlined main section of web pages | **✓** |
| Discussed if legislation, standards and procedures are meeting web page requirements or not | **✓** |
| Obtained the confirmation about the web page design, layout | **✓** |
| Completed the given meeting minutes template. | **✓** |
| Completed the meeting in the given timeframe. | **✓** |
| Use active listening to understand the manager's point of view. | **✓** |
| Allow other people to discuss the issues | **✓** |

| **Task C – Develop web pages and css** | |
| --- | --- |
| **Did you perform the following layout requirements?** | **Y**  **✓** |
| Created four HTML documents titled: Home, Products, Register and About | **✓** |
| Created an external CSS style sheet and linked it to the four HTML documents | **✓** |
| Created a web page layout that specifies a header, menu, main, aside and footer sections | **✓** |
| Ensured that the main section takes up 80% of the screen width, and the aside section takes up 20% of the screen width. | **✓** |
| The layout should be responsive to different viewport sizes | **✓** |
| The Header section is to contain only the Computer Force logo centrally positioned. | **✓** |
| The Menu section is to contain links to each of the web pages within the website which is left aligned. | **✓** |
| The Menu section should contain a search area which is right aligned. This area should contain a text box that the user can enter text for the search term, and a button with the text of “Search”. | **✓** |
| The Aside area should contain an h2 heading with the text of “Purchases”. Under this it should contain a small table with the following cells:   * Row 1 column 1: Text of “0 items” * Row 1 column 2: Text of “Cart sub-total: $0” * Row 2 column 1 and 2: Button with the text “Go to Checkout”. | **✓** |
| The Footer section should contain a paragraph element of text containing copyright information. You should specify the copyright symbol followed by the current year and your name within the paragraph. | **✓** |
| **Did you perform the following web page requirements?** | **Y**  **✓** |
| The Home page:   * Must have an **h1** element to specify the text “Welcome to Computer Force”. * Must contain the following text directly below the header:   “Computer Force is your online expert in all things computing”   * Must contain the following below the previous text. An **h2** and **img** elements for some of the main products that Computer Force sells:   + Computers   + Laptops   + Monitors   + Printing & scanning   + Software   + Tablets   Each should have a title specified by the **h2** element, and an image that is appropriate to the product type.   * Each of the above images should act as a hyperlink to an anchor for that product category on the **Products** page. | **✓** |
| The Products page:   * Must have an **h1** element to specify the text “Products we sell”. * Contain the following text directly below the header:   “Computer Force sells products in the following categories:”   * Below this should be an **h2** and **img** elements for every product category that Computer Force sells including:   + Audio   + Computers   + Graphics cards   + Keyboard and mice   + Laptops   + Monitors   + Networking   + Peripherals   + Printing & scanning   + Software   + Storage   + Tablets   Like the home page, each should have a title specified by the **h2** element, and an image that is appropriate to the product type. | **✓** |
| The Register page:   * Must have an **h1** element to specify the text “Registration Form”. * Contain the following text directly below the header: “Please complete the following form to register for an account on our website.” * The form should implement a post submission and is to contain the following elements:  | **Name** | **Notes** | | --- | --- | | Username\* | Textbox used to gather a unique account name. | | Email Address\* | Textbox used to gather the users email address. | | Password\* | Textbox used to set the accounts password. | | Confirm Password\* | Textbox used to confirm the account password. | | First Name\* | Textbox used to set the users first name. | | Surname\* | Textbox used to set the users surname. | | Gender\* | Textbox used to specify whether the user is male or female. | | Date of Birth | Textbox used to set the users date of birth. | | Address\* | Textbox used to set the street address where the user lives. | | Suburb\* | Textbox used to set the suburb where the user lives. | | Postcode\* | Textbox used to set the postcode where the user lives. | | State\* | Textbox used to set the state where the user lives. Must give the user the option one from the following states: ACT, NSW, NT, QLD, SA, TAS, VIC and WA. | | Phone number | Textbox used to set the user phone number. | | Clear | Button used to clear the form data. | | Register | Button used to submit the form data. | | **✓** |
| The Contact page:   * Must have an **h1** element to specify the text “About Computer Force”. * Must contain the following text directly below the header: * Computer Force is a brand-new start-up company designed to provide first-class service to its customers. Based in Parramatta in Sydney, Computer Force provides top class computing products at bargain prices, for sale throughout Australia.   Our goals are:   * + To become Australia’s most well-known and respected hardware and software provider   + To create a service-based organisation whose goal is to exceed customer's expectations   + To provide a smooth, efficient, and transparent sales process * Must contain the following text directly below the previous text:   + You can contact us using the following methods:     - Address: 100 Main Road, Parramatta, NSW 20150     - Email: [info@computerforce.com.au](mailto:info@computerforce.com.au)   o Phone: 02 4444 5555 | **✓** |
| The CSS file should apply colours and fonts to give the website an  aesthetic appeal. | **✓** |

| **Task D – Validate CSS** | |
| --- | --- |
| **Did you:** | **Y**  **✓** |
| Successfully validate the CSS using the W3C validation service? | **✓** |

| **Task E – Cross-browser test website** | |
| --- | --- |
| **Did you:** | **Y**  **✓** |
| Provide screenshots of the four web pages being viewed by the following web browsers in BrowserStack:   * Chrome * Firefox * Microsoft Edge or Safari | **✓** |
| If there’s any cross-browser or device issues, did you highlight any issues and provided an annotated screenshot of each issue? | **✓** |
| Student needs to debug the web pages and ensure security of the website using relevant tools | **✓** |
| Student needs to ensure that website is developed in accordance with the cyber security protocols and procedures | **✓** |

| **Task F – Validate accessibility** | |
| --- | --- |
| **Did you:** | **Y**  **✓** |
| Validate the HTML for the four web pages successfully to WCAG 2.0 Level AA? | **✓** |

| **Task G – Confirmation of web design** | |
| --- | --- |
| **In the meeting, did you:** | **Y**  **✓** |
| Discussed website accessibility? | **✓** |
| Obtained feedback on the web page layout and design | **✓** |
| Discussed the test results of browsers | **✓** |
| Highlighted cyber security protocols | **✓** |
| Highlighted how the web pages will be amended | **✓** |
| Got confirmation in the required changes made on web pages | **✓** |
| Obtained sign-off | **✓** |
| Completed the given meeting minutes template. | **✓** |
| Use active listening to understand the manager's point of view. | **✓** |
| Allow other people to discuss the issues | **✓** |