Timeline

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**Portfolio**

**Student Version**

**ICTWEB452**

**Create a markup language document**

First published 2021

RTO Works

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A close up of a logo

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A close up of a logo

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|  |  |
| --- | --- |
| Student name: | Sponge Bob |
| Assessor: | Chuan |
| Date: | 2024/4/22 |

You are a website designer. This assessment is to design a website for an ecommerce company that sells computer and IT gadgets. Requirements:

* + Page 1: Home Page.
  + Page 2: Customer Support including support flowchart and contact information.
  + Page 3: Product Portfolio. List at least 10 products.
  + Page 4: About Us.
  + Page 5: Blog or News

Design your website in CSS layout.

A minimum of 8 comments must be added to your CSS.

Capture screenshots of these designs and save as picture (image) files.

One objective of this website is to acquire additional investment from potential stakeholders. A storyboard and wireframe should be added for this purpose. Additionally, you should draw a flow chart to illustrate your design process.

Required webpage components

* images
* illustration (picture)
* animation or video (optional)
* links.
* Footer with company
* Hover button
* Personal logo (with image and text)
* Consistent design style using external style sheet. Design CSS page layout and navigation bar.
* Picture gallery
* CSS fonts
* Table (4x4)

Section 1: Prepare to develop web pages

|  |  |
| --- | --- |
| Uses and audience  *List the uses there will be for your website (web pages). List at least 3 functions and 3 values of your website.*  *Describe the audience for your website. List at least 3 types of audience.* | Website Usage  My website is a comprehensive online platform aimed at providing users with a one-stop service experience. Its main uses include but are not limited to:  Information sharing: As an information center, my website gathers real-time information from various fields such as technology, culture, economy, sports, etc., ensuring that users can quickly access the information they need.  Online services: The website provides various online services, such as online course learning, medical consultation services, e-commerce shopping, etc., to meet the different needs of users.  Community interaction: Established a vibrant community where users can share experiences, raise questions, participate in discussions, and enhance mutual understanding and communication.  Website Features  The following are the three core functions of the website:  Intelligent recommendation system: By analyzing user browsing history and interests, it intelligently recommends relevant content and services to improve user experience.  User Personalization Settings: Allow users to customize website interfaces, themes, font sizes, etc. according to their preferences and needs, providing personalized services.  Multi platform compatibility: The website supports access from multiple devices and browsers, ensuring that users can enjoy a smooth user experience in different scenarios.  Website Value  The following are the three core values of a website:  Efficient and convenient: By centralizing various types of information and services, users can efficiently complete multiple tasks on the same platform, saving time and energy.  Professional and reliable: providing authoritative and accurate information and professional services to ensure the quality of information and services obtained by users.  Strong interactivity: Through community interaction functions, it enhances communication and connection between users, promoting the dissemination and sharing of information.  Website Audience  My website has a wide audience, including but not limited to the following three types:  Information demanders: This group of users mainly focus on the information sharing function of the website. They may be students, professionals, researchers, etc., and need to obtain the latest information and knowledge in various fields.  Service demanders: They hope to find the necessary services on the website, such as online learning, medical consultation, shopping, etc. This group of users may include students, housewives, office workers, etc.  Social enthusiasts: They enjoy participating in community interactions and communication, sharing their experiences and insights. These users are usually more active and enjoy building connections and friendships with others. |
| Markup language  *Document the markup language you will use. Explain your rationale for choosing this markup language for your webpage and audience.*  *(For instance, why choose html, do you have other choices? List 3 reasons to support your choice)* | When creating web pages, I will choose HTML (HyperText Markup Language) as the primary markup language. HTML is the standard markup language used to create webpage content, and here are three main reasons why I chose HTML:  Universality and compatibility: HTML is the common language for creating web content on the Internet, and almost all browsers support HTML. This means that regardless of which browser or operating system users are using, they can correctly view and access web pages written in HTML. This broad compatibility ensures the accessibility and usability of web pages.  Easy to learn and use: The syntax of HTML is relatively simple and intuitive, making it easy to learn and master. This allows even beginners to quickly get started and create basic webpage content. In addition, HTML also has rich tags and attributes to describe the structure and content of web pages, allowing developers to flexibly design and build various complex web page layouts and functions.  Scalability and Customizability: HTML allows developers to extend the functionality and style of web pages by adding additional markup languages such as CSS and JavaScript. CSS (Cascading Style Sheets) is used to control the layout and appearance of web pages, while JavaScript is used to add interactivity and dynamic effects. This scalability enables HTML to meet various complex web development needs and achieve a highly customized user experience.  Of course, in addition to HTML, there are other markup languages to choose from, such as XML (Extensible Markup Language) and XHTML (Extensible HyperText Markup Language). However, these languages may not be as suitable for web development as HTML in certain aspects. For example, XML is primarily used for storing and transmitting data, rather than creating web page content; Although XHTML is a stricter and purer version of HTML, it has not been widely adopted and supported in practical use. Therefore, based on the above reasons, I believe that HTML is the best choice for creating web pages. |
| Documentation  *List the documentation (references, websites) that you will need to develop the web pages. (list at least 3 sources and their values in 50 words)*  *Make sure you refer to the simulation pack to assist with this answer.* | When developing web pages, I will refer to the following three documents and sources to ensure the smooth progress of the project:  W3Schools HTML Tutorial: This is an authoritative online tutorial website that provides rich teaching resources and examples of front-end technologies such as HTML, CSS, and JavaScript, which helps me deepen my understanding of the basic structure and style design of web pages.  MDN Web Documents: Mozilla Developer Network Documents is a comprehensive technical document library that includes detailed documentation and tutorials on various web technologies, which is very helpful for in-depth research and solving specific technical problems.  Professional design books, such as "Best Practices for Web Frontend Development", usually cover various aspects of web development, including design principles, best practices, performance optimization, etc., which are very valuable for enhancing the professional competence of web development.  The above documents and sources are based on their authority and practicality in the field of front-end development, providing me with valuable technical support and design inspiration. |
| Document structure  *Include an outline of the structure of your web pages, as well as the web pages components you will use.*  *Use a diagrammatic structure (draw.io) to show the layout where possible.* | (1) List essential HTML document structure  (2) Using Figma to draw wireframe, sitemap and briefly explain each web page |
| Accessibility  *Explain how you will ensure that your website meets accessibility requirements* | List at least 3 features to support accessibility  *1. Compatibility*  *Ensure that the website can run normally on various browsers, operating systems, and devices, including desktops, tablets, and phones.*  *Using responsive design to enable websites to automatically adjust layout and element sizes at different screen sizes and resolutions, ensuring that users can have a good experience on different devices.*  *2. Accessibility design*  *Adhere to the principle of accessible design to ensure that the website can be easily used by users with visual, hearing, and movement impairments.*  *Provide sufficient color contrast to make the color difference between the text and background clear and easy to read.*  *Use clear and concise language to describe content, avoiding the use of complex terminology or jargon.*  *Support keyboard navigation, ensuring that users who do not use a mouse can also browse and operate websites through the keyboard.*  *Provide screen reader support to ensure visually impaired users can access website content through voice.*  *3. Understanding and operability*  *Ensure that the content, functionality, and operation of the website are easy to understand and use.*  *Use concise and clear navigation structures to avoid users getting lost in complex website structures.*  *Provide clear operational instructions and feedback to ensure that users have a clear understanding of how to perform the operation and the results of the operation.*  *Use consistent design style and interaction methods to avoid confusion among users between different pages.*  *Consider using accessibility plugins and tools such as WAVE assessment tools, Lighthouse accessibility audit tools, etc. to help identify and resolve potential accessibility issues.* |

Section 2: Create web pages

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| --- | --- | --- |
| Text editor  *Identify the text editor you will use here.* | 1. Visual Studio Code (VS Code)  Reason for selection:  Wide support and community: VS Code has a large user base and active community, providing a large number of plugins and extensions.  Cross platform: can run seamlessly on Windows, Linux, and macOS.  Lightweight yet powerful: Despite its compact size, VS Code provides powerful code editing, debugging, and version control capabilities.  Advantages:  Rich plugin ecosystem: You can enhance the editor's functionality by installing plugins, such as Git integration, code snippets, themes, etc.  Intelligent code prompt and completion: Supports intelligent code prompt and automatic completion in multiple programming languages.  Highly customizable: Users can customize the editor interface, shortcut keys, etc. according to their preferences.  Disadvantages:  For large-scale projects, performance may be affected.  Sometimes there may be compatibility issues between plugins.  2. Sublime Text  Reason for selection:  Efficient and lightweight: Sublime Text is known for its fast startup speed and smooth user experience.  Powerful text processing capabilities: Provides multiple text operations and editing functions.  Strong customization: Users can easily customize the interface, shortcut keys, and plugins.  Advantages:  Excellent performance: able to maintain smoothness even when processing large files.  Easy to expand: Plugins can be easily installed and managed through Package Control.  Beautiful interface and theme: Provides a variety of beautiful interfaces and themes for users to choose from.  Disadvantages:  Compared to editors such as VS Code, the plugin ecosystem may be smaller.  Some advanced features may require payment to purchase plugins.  3. Atom  Reason for selection:  Open source and free: Atom is a completely open source text editor that users can freely customize and use.  Powerful Git integration: Built in Git control panel and status indicator for easy version control.  Cross platform: Supports Windows, Linux, and macOS.  Advantages:  Highly customizable: Users can customize the appearance and behavior of the editor by modifying CSS and HTML.  Rich plugin library: Atom has a wide range of plugins to choose from, covering various development needs.  Easy to expand: Users can develop their own plugins using HTML, CSS, and JavaScript.  Disadvantages:  Compared to other editors, the performance may be slightly inferior.  Due to its open source nature, there may be some security and stability issues. | |
| Using the text editor, create your web pages including applying styles  *Take screenshots of the code you generate and attach them to your Portfolio.*  *List the title of the screenshots here.* | Describe your page here  Page 1  Page 2  Pag 3  See appendix 1 for screenshots, save your website as a zip file. Upload.  Links to Github pages  Links to Github source codes | |
| *Paperclip* Attach: | Screenshots |  |

Section 3: Validate web pages

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| --- | --- | --- |
| Browser and devices  *You are to test that your web pages work on:*   * *two different types of browsers* * *two different types of devices*   *List the two browsers you tested your web pages on and the two devices.*  *Take screenshots of your work to attach to your portfolio.*  *Note down at least one change you need to make to your web pages.* | Capture screenshots of your test results and save as appendix  Explain your test procedures. | |
| Specifications  *Check that you have covered all of the specifications for the web pages.*  *Provide a brief description here of how you have achieved this.*  *Click [here](https://highrise.digital/blog/web-specification-guide/" \l ":~:text=A%20website%20specification%20is%20a,stakeholders%20or%20points%20of%20contact.) [link2](https://wemakewebsites.com/blog/how-to-write-a-website-specification/) for sample website specifications* | List at least 6 topics of your website design specifications. Insert actual document in the appendix. | |
| Sign off  *Send an email to your assessor explaining how you have met requirements for this task, providing a link to your final web pages and seeking approval.* | Hi Chuan  Dear xxx  This is xxx, I have completed this xxx assessment and met requirement because xxxx… | |
| *Paperclip* Attach: | Screenshots |  |

Appendix 1

Appendix 2

Appendix 3

Marking criteria

* **Unique Design and Visuals**
* **Clear and Concise Content**
* **User-Friendly Navigation**
* **Responsive Design**
* **Interactive Elements**
* **Unique Branding**