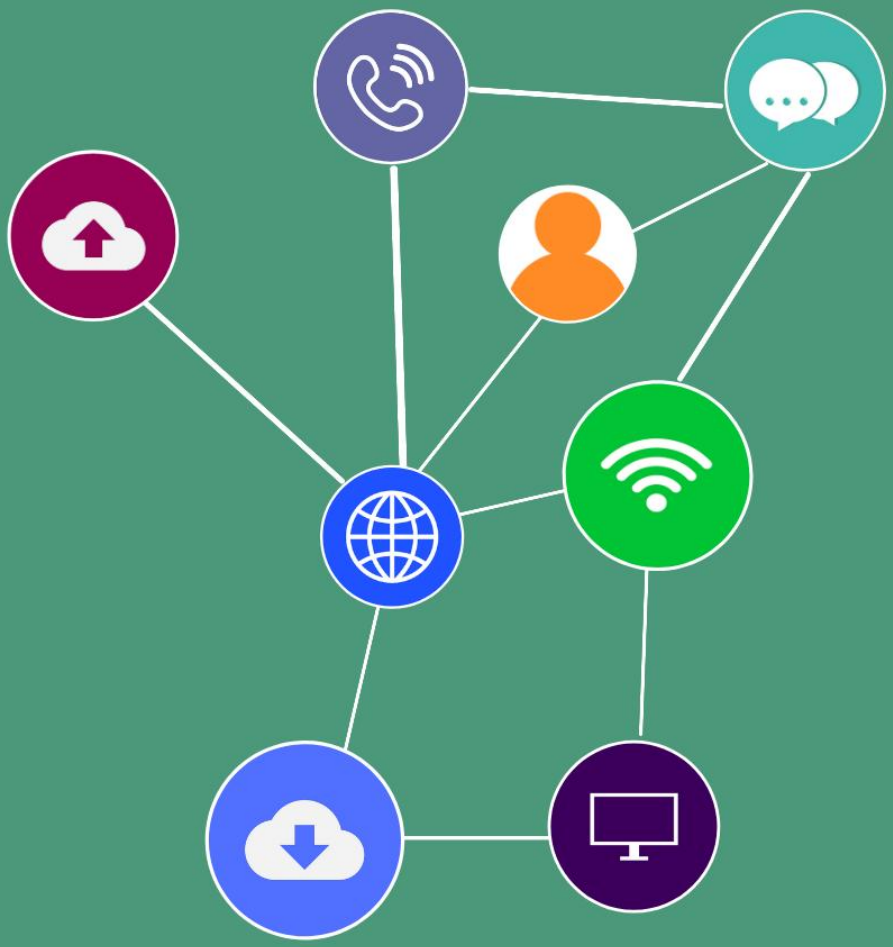
PORTFOLIO

Student Version



ICTWEB452

Create a markup language document

First published 2021

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IT Works is a series of training and assessment resources developed for qualifications within the Information and Communications Technology Training Package.

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Assessor:	Chuan
Date:	2024/06/03

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.

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

(1) 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.*	1）Answer： Function: 1. Online Sales: Provides a platform for users to browse and purchase computer and IT products. 2. Customer Support: Provide assistance and contact information to ensure that users receive necessary support during use. 3. Information exchange : Release company news, product updates, and industry related content, and interact with users. Value: 1. Brand building: Strengthen brand image through professional website design and content display. 2. Expand the market: Utilize online platforms to reach more potential customers and increase sales. 3. Market Insight : Collect user data and feedback, optimize products and services. （2）Answer: Technology enthusiasts: Individual users with a strong interest in the latest technologies and products, who pursue high performance and innovative features. Enterprise customers: Companies and organizations that need to purchase IT equipment for commercial operations, seeking reliable products and high-quality customer service. Educators and students: Users of schools and educational institutions who seek technology and equipment suitable for the educational environment, emphasizing cost-effectiveness and educational applicability.

(2) 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)*	Answer：1.Extensive Browser Compatibility: The selection of HTML as the markup language for web pages is primarily due to its extensive browser compatibility. As an international standard, HTML ensures that website content is displayed correctly across a variety of devices and browsers. This broad compatibility is crucial for global accessibility, ensuring that users worldwide can consistently access and interact with web content, regardless of their choice of browser or device. 2. Intuitive Content Management: HTML is favored for its intuitive content management capabilities. The language provides a clear labeling system that simplifies the organization and formatting of content. This ease of use is beneficial for the daily management and updating of websites. Content creators and webmasters can readily utilize HTML tags to define the structure and presentation of text, images, links, and other elements, streamlining the process of building and maintaining web content. 3. Seamless Integration with CSS and JavaScript: The extensibility of HTML is highlighted by its seamless integration with CSS and JavaScript. CSS is used to control the visual styling and layout of web pages, while JavaScript introduces interactive elements and dynamic content. By combining these three technologies, developers can significantly enhance the visual appeal and user experience of websites. The structural foundation provided by HTML, the presentational aspects managed by CSS, and the interactive behaviors facilitated by JavaScript, work together to create modern, engaging, and feature-rich e-commerce websites.
(3) 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.*	Answer：1.W3Schools: Provides comprehensive HTML, CSS, and JavaScript tutorials, suitable for quick learning and finding coding references. 2.Mozilla Developer Network (MDN): in-depth documentation and tutorials to help developers understand web technology and follow best practices. 3.Google Web Fundamentals: A professional guide covering key areas such as performance optimization, responsive design, and accessibility to enhance overall website performance and user experience.

(4) 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
	
	(1) List essential HTML document structure
	
	The essential structure of an HTML document consists of several key elements that define the basic layout and content of a webpage. Here is a list of the fundamental components:
	
	1. Doctype Declaration: This tells the browser which version of HTML the document is written in. For HTML5, it is:
	
	``html
	<!DOCTYPE html>
	``
	
	2. html Element: This is the root element of an HTML page and contains all other elements:
	
	``html
	<html lang="en">
	``
	
	3. head Element: Contains meta-information about the document, such as its title and character set, and links to external resources like stylesheets and scripts:
	
	``html
	<head>
	<meta charset="UTF-8">
	<title>Page Title</title>
	<!-- Additional meta tags, stylesheets, and scripts can be included here -->
	</head>
	``
	
	4. title Element: Defines the title of the document, which is displayed in the browser's title bar or tab:
	
	``html
	<title>Page Title</title>
	``
	
	5. body Element: Contains the content of the HTML document, such as text, images, links, tables, lists, etc.:

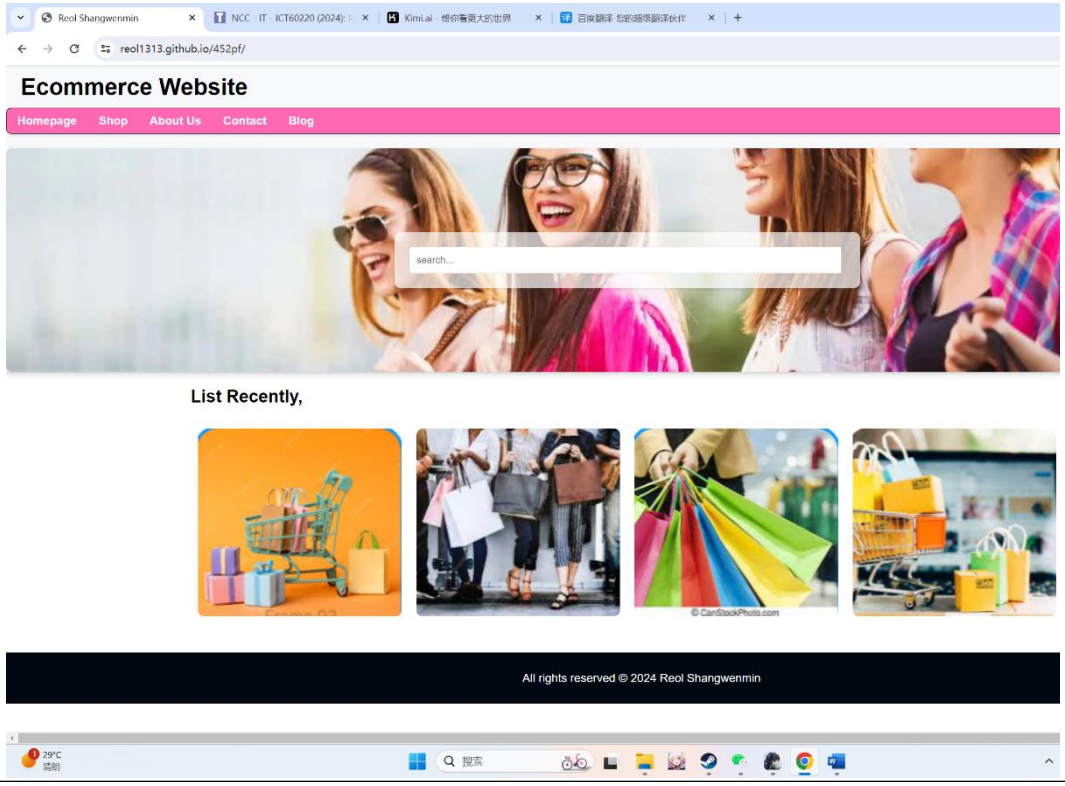
	``html
	<body>
	<!-- All the content of the webpage goes here -->
	</body>
	``
	
	6. meta Charset: Specifies the character set to be used for the document (UTF-8 is the most common and recommended):
	``html
	<meta charset="UTF-8">
	``
	
	7. viewport meta tag: (optional, but important for responsive design) This tag helps to control the layout on mobile browsers:
	``html
	<meta name="viewport" content="width=device-width, initial-scale=1.0">
	``
	
	8. link Element: Used to link external resources, such as CSS stylesheets:
	``html
	<link rel="stylesheet" href="styles.css">
	``
	
	9. script Element: Used to include JavaScript files or scripts in the HTML document:
	``html
	<script src="script.js"></script>
	``
	
	10. Content Sections: Within the body, you can have various sections like headers (`<header>`), navigation (`<nav>`), main content (`<main>`), articles (`<article>`), asides (`<aside>`), and footers (`<footer>`).
	
	Here's a simple example of a complete HTML document structure:

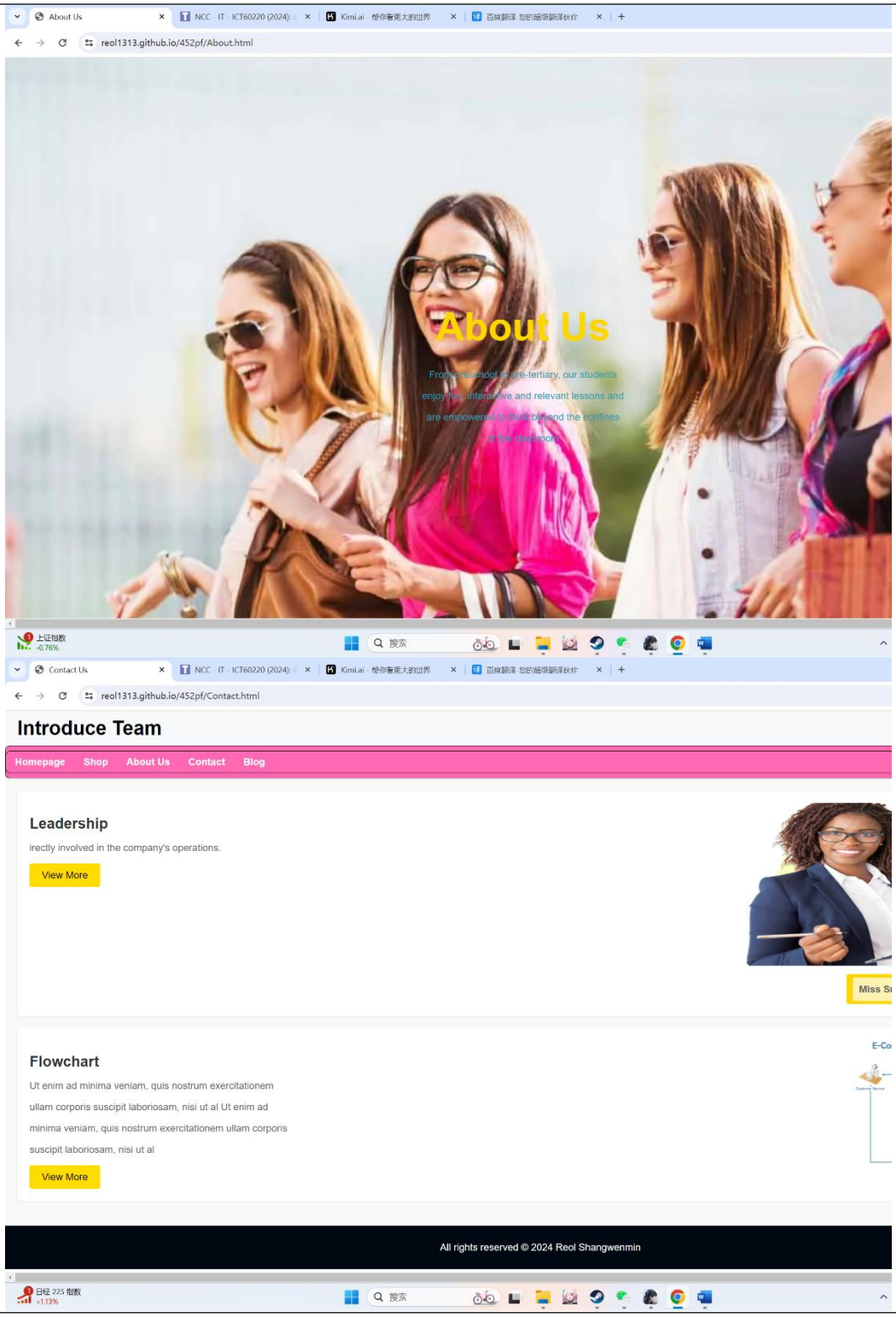
	``html
	<!DOCTYPE html>
	<html lang="en">
	<head>
	<meta charset="UTF-8">
	<meta name="viewport" content="width=device-width, initial-scale=1.0">
	<title>Page Title</title>
	<link rel="stylesheet" href="styles.css">
	<!-- Additional head elements -->
	</head>
	<body>
	<header>
	<!-- Header content -->
	</header>
	<nav>
	<!-- Navigation links -->
	</nav>
	<main>
	<!-- Main content -->
	</main>
	<aside>
	<!-- Sidebar or other content -->
	</aside>
	<footer>
	<!-- Footer content -->
	</footer>
	<script src="script.js"></script>
	<!-- Additional body elements -->
	</body>
	</html>
	``
	
	(2) Using Figma to draw wireframe, sitemap and briefly explain each web page
	
	link：

	https://www.figma.com/design/1dDxNov2tznIMmjot8wYmt/Untitled?node-id=0-1&t=3CjK7KWd66cWMAi0-1
(5) Accessibility *Explain how you will ensure that your website meets accessibility requirements*	List at least 3 features to support accessibility. Identify these features from your webpage. Be specific about their location, design, and position. Explain who will benefit from these accessibility features. Answer： Navigation: Can help quickly reach the desired page At the top of the website Calculator: capable of automatically calculating prices on the second page Button: can quickly jump In the most prominent position on each page

Section 2: Create web pages

(1) Text editor *Identify the text editor you will use here.*	List at least 3 choices. Answer:1.Visual Studio Code (VS Code)2.Sublime Text3. Atom Final: Visual Studio Code (VS Code) List at least 3 reasons to choose the above editor. Answer:1. Extensibility: VS Code has a rich ecosystem of extensions that can enhance its functionality for web development. 2.Integrated Terminal: It includes an integrated terminal which is handy for running commands directly within the editor. 3.Debugging and IntelliSense: Offers powerful debugging tools and IntelliSense for code completion Advantages:1. Free and Open Source: VS Code is free to use and is open source. 2.Cross-Platform: It works on Windows, macOS, and Linux. 3.Customizable: Allows for extensive customization of themes, shortcuts, and settings. Disadvantages1.Resource Usage: Can be resource-intensive on lower-end machines. 2.Learning Curve: New users might find the setup and customization process a bit overwhelming.
(2) Using the text editor to create your web pages including page styles, pictures, buttons, and other necessary components *Take screenshots of the code you generate and attach them to your Portfolio.* *List the*	Describe your page: Page 1 Screenshot Title: "Ecommerce Homepage Design" Description: This is the main entry point of the website, featuring a clean and modern design. It includes a prominent banner with an animation, a navigation bar with links to other pages, and a carousel showcasing featured products. The layout is responsive, ensuring a good user experience on both desktop and mobile devices. Page 2 Screenshot Title: "Detailed Product Showcase" Description: This page provides an in-depth look at a specific product, including high-quality images, detailed specifications, customer reviews, and a 'Buy Now' button. The design is user-friendly, with a focus on readability and ease of navigation. Page 3 Screenshot Title: "Company Overview" Description: The 'About Us' page offers insights into the company's mission, history, and team members. It features a professional layout with images of the team and a narrative that builds trust and credibility with visitors. Page 4 Screenshot Title: "Customer Support Portal" Description: This page is dedicated to customer support, including a support flowchart to guide users through common issues, as well as contact information and a contact form for

title of the screenshots here.	direct inquiries. The design is clear and accessible, making it easy for users to find the help they need. Page 5 Screenshot Title: "Latest News and Articles" Description: The blog page features the latest news, updates, and articles related to the company and industry. It has a dynamic layout with images, video embeds, and interactive elements to engage readers. The design is optimized for readability and content discovery. See appendix 1 for screenshots, save your website as a zip file. Upload. Links to Github pages https://reol1313.github.io/452pf/ Links to Github source codes https://github.com/Reol1313/452pf
Attach:	Screenshots 


About Us
reol1313.github.io/452pf/About.html
About Us
Contact Us
reol1313.github.io/452pf/Contact.html
Introduce Team
Homepage
Shop
About Us
Contact
Blog
Leadership
irectly involved in the company's operations.
View More
Flowchart
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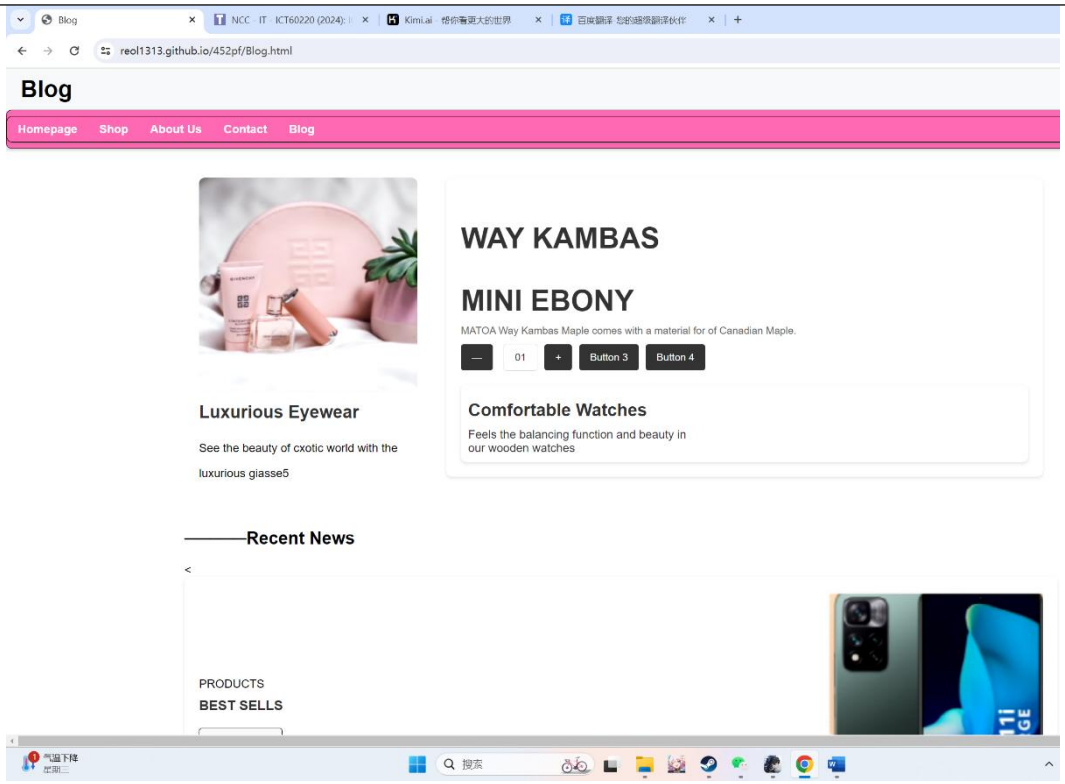
Blog
reol1313.github.io/452pf/Blog.html
Blog
Homepage
Shop
About Us
Contact
Blog
WAY KAMBAS
MINI EBONY
MATOA Way Kambas Maple comes with a material for of Canadian Maple.
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+
Button 3
Button 4
Luxurious Eyewear
See the beauty of cxotic world with the luxurious giasse5
Comfortable Watches
Feels the balancing function and beauty in our wooden watches
Recent News
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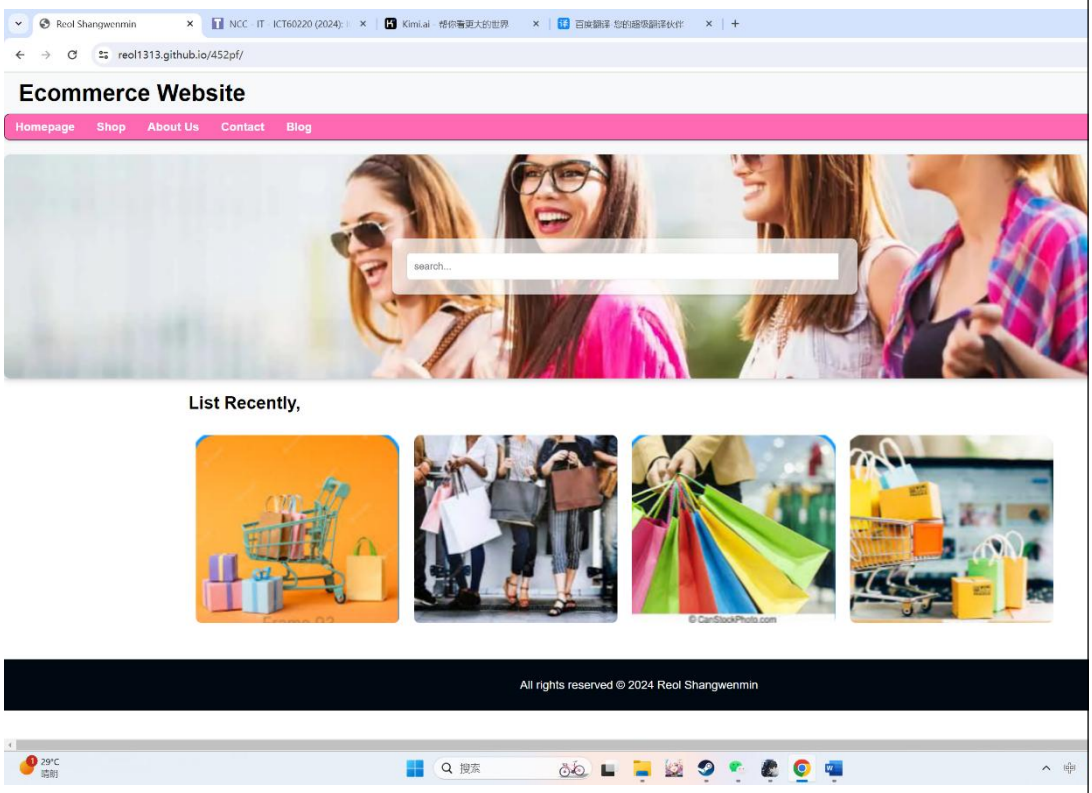
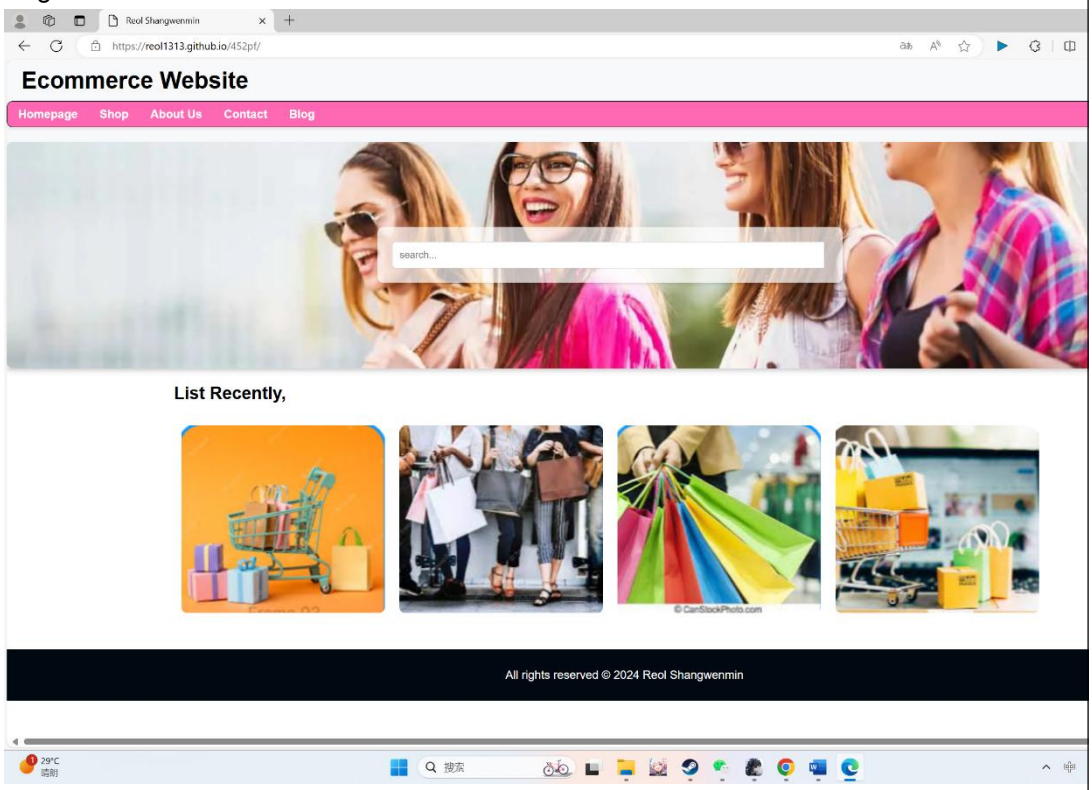
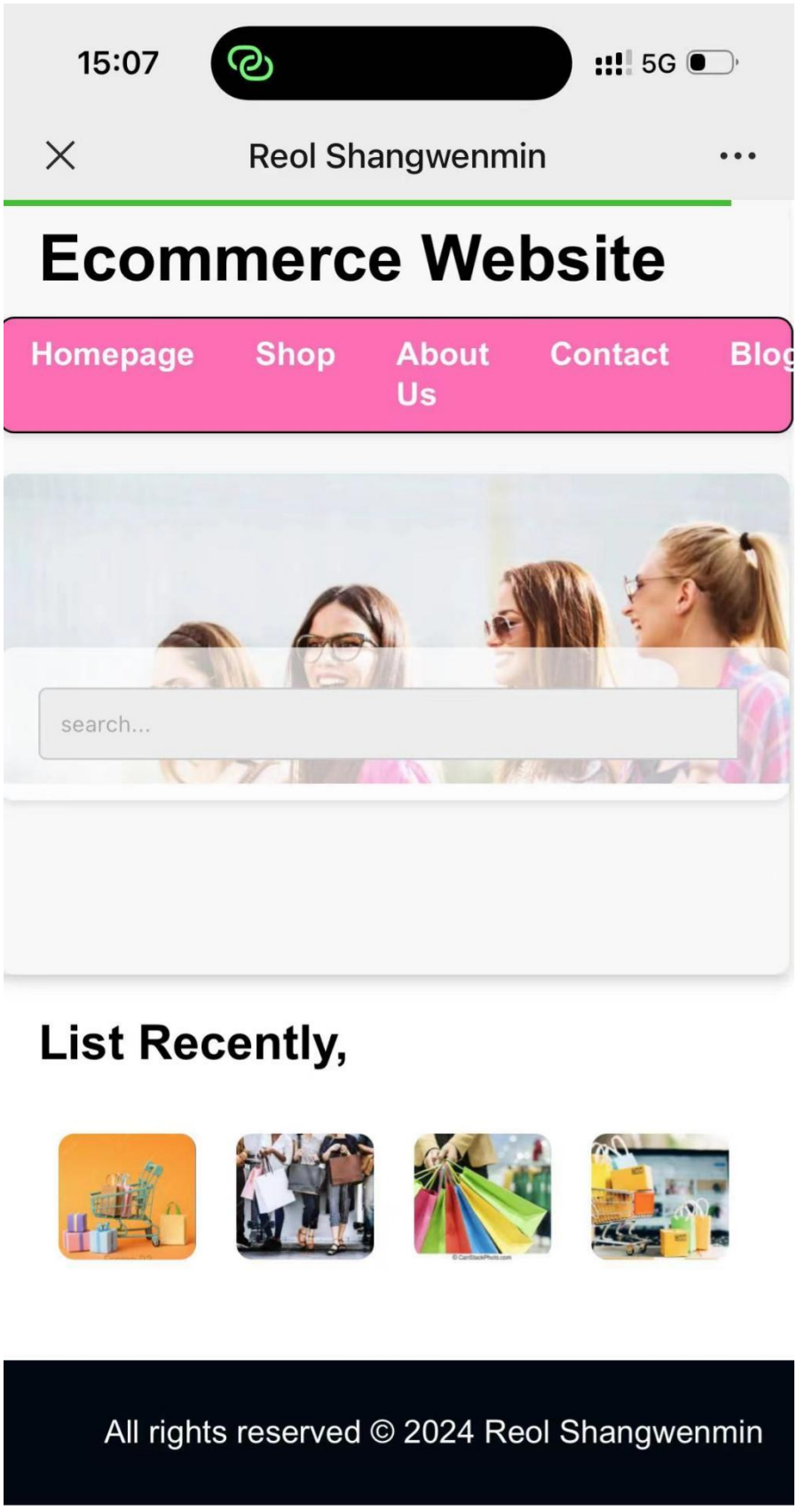
PRODUCTS
BEST SELLS

Section 3: Validate web pages

(1) 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. Answer:Chrome:  Edge: 


15:07
5G
Reol Shangwenmin
Ecommerce Website
Homepage
Shop
About Us
Contact
Blog
search...
List Recently,
All rights reserved © 2024 Reol Shangwenmin

	Changes Made: - I updated the CSS media queries to ensure the navigation menu is fully accessible without scrolling on all browsers. - I increased the spacing between buttons on the mobile layout to improve tap accuracy.
(2) 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 link2 for sample website specifications*	List at least 6 topics of your website design specifications. Insert actual document in the appendix. Answer: The design follows the HTML style guide provided by Google, ensuring consistency and professionalism in the code. ### Example Topics for Website Design Specifications: 1. Responsive Design Implementation 2. Cross-Browser Testing and Compatibility 3. Homepage Layout and Features 4. Product Description Page Details 5. Customer Support Page Structure 6. About Us and Blog Page Content

(3) 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.*	Certainly! Below is a template for an email you can send to your assessor to explain how you have met the requirements for your web design task and to seek approval: --- Subject: Completion and Approval Request for Web Design Assessment Dear Chuan, I hope this message finds you well. My name is Reol, and I am writing to inform you that I have completed the web design assessment task assigned to me. I am confident that I have met all the specified requirements, and I am eager to share my final web pages with you for review and approval. To demonstrate my adherence to the project specifications, I have: 1. Designed a comprehensive e-commerce website** showcasing a variety of computer and IT gadgets. The website includes a homepage, customer support page with a flowchart and contact information, a detailed product description page, an "About Us" section, and an informative blog. 2. Incorporated essential components** such as high-quality images, graphics, videos, and animations to enhance the visual appeal and user experience. 3. Developed a responsive navigation bar** and a footer that includes my contact details, ensuring easy accessibility for potential customers and partners. 4. Applied the box model** to structure the layout of the web pages, creating a clean and organized design. 5. Implemented animations and transitions** to provide a dynamic and engaging interface. 6. Ensured responsive web design**, testing the pages on various devices and browsers to guarantee compatibility and functionality. 7. Followed markup language procedures** and style guides, adhering to best practices for HTML and CSS coding.

	8. Documented my work** and included an appendix with screenshots, code validation reports, and a detailed description of how each specification was met. I have deployed the final version of the website online, and you can access it through the following link: [Your Website URL] I would greatly appreciate it if you could review my work at your earliest convenience and provide your feedback. Your approval would signify the successful completion of this assessment and mean a lot to me as I continue to develop my skills in web design. Thank you for your time and consideration. I am looking forward to your response. Best regards, Reol Shangwenmin
 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

Part A. Answer above questions.

Part B. Design a 5-page website. Meeting the following requirements:

(1) consistent design style (font, layout, and page design)

(2) capture screenshots of your web pages, insert them into your pdf and online text. Create your web pages with a proper layout and spacing.

(3) Footer with your full name must be available in every page

(4) Design a company logo (using tools from Canvas.com).

(5) Using external CSS to center navigation bar, page heading and layout. All pages should refer to the same CSS.

(6) page 1, This is your homepage. Introduce your company as a market leader selling ICT gadgets and computer products in Australia. List your company name, address, unique values, and customer support policies.

(7) Page 2, customer support process must be available in graphical format. Draw a flowchart or wireframe (include at least 2 items) to demonstrate the process. Using box model to centre your picture, diagram, and illustration.

(8) page 3, Add images of company products. You have briefly described each product. (at least 10 product pictures with short description)

(9) Page 4, About US. Location map and contact details in Australia.

(10) Page 5, Blog. Add at least 3 latest industry or company news.