Government Communications and Public Engagement
FRONT END WORDPRESS DEVELOPER TEST

Applicant Name: Ho Yin Dominic Leung
<small>Double-click line to add name</small>

Date: 2024-05-17
<small>Double-click line to add date</small>

<p style="color:red; text-align:center;">IMPORTANT (please read carefully):</p>

The purpose of this test is to gauge your skill and experience as a professional communicator. To ensure fairness and equity in this test, **you are prohibited from using AI writing and design tools. This includes but is not limited to ChatGPT, Bing, Bard, etc. In addition, you must complete this assessment without assistance from anyone else.** You're welcome to use spelling and grammar checking tools.

Any applicant that has not initialed the following confirmation will be disqualified.

I confirm that I have not made use of any AI writing or design tools to assist my test submission, nor have I received assistance from other people.	**Please initial here:** **DL**

Introduction and Overview:

Welcome and thank you for taking the time to complete Government Communications and Public Engagement's Front End Developer test.

Testing Components:
Section 2 – Wireframing and website design management
Section 3 – Website development
Section 4 – Website audit part 2

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SECTION 2 – Wireframing and website design management (20%)

Intro:

This position should have basic graphic management skills. The proponent should be able to create (non-design) wireframes and edit and manage quality visual assets for marketing campaign websites.

Directions:

Please develop a website layout wireframe for the homepage audited in SECTION 1 (previously submitted) to describe the optimum user experience, using Gutenberg Block development. While you do not need to revise the site's information architecture as part of the review, you may choose to offer new or different ways to access information from the existing site as part of your revised page. Please provide relevant notes on your choices, should your update change the page context or content.

Notes:

You're welcome to use design tools such as Adobe XD, Figma, Canva, etc. or even image creation tools such as Adobe Photoshop, Illustrator or similar raster or vector image creators. Stock image providers such as Pixabay, Freepik, Unsplash, and Pexels are also ok for use. We recommend Canva because it is free and features design tools and stock imagery. Please note that you do not need to buy tools or purchase assets for this assignment. You are welcome to submit designs that include watermarks on them.

Format:

Visual wireframe – design is secondary – showing content layout and format with emphasis on WordPress block usage and positioning. Output should be in the form of a PDF (or image if more appropriate).

Answer:

The visual wireframe is created using Canva and being saved in a separate PDF. The content layout has been rearranged to ensure the information is being top-down by priority in the following order:

1. Header with the menu items
2. The mission statements
3. The reasons to improve the home's energy efficiency
4. Learn more information about Clean BC Better Homes
5. Location of where to find the support

6. Footer with about us and contact us information

The logical is to provide users an understanding of Clean BC Better Homes and the reason to use this service. They can read through the detail information about the service and then the support information should they need more information. The "Search for Rebates" was originally located in the banner but it is now being relocated to the "Learn more about Clean BC Better Homes" section as the content is being grouped in a more relevant manner.

Note that the menu item has been revised compared with the previous version by moving the "About Us" and "Contact Us" link to the footer while adding an extra contact us section in details in the "Where to find the support" section. The header and footer follow with the standard theme Alpha theme 3 style for consistency throughout the page journey.

SECTION 3 – Website development (50%)

Intro:

This position requires front-end development on WordPress using Gutenberg Blocks.

Directions:

With the wireframe in SECTION 2, please use the Local-WP application – which can be downloaded for free from https://localwp.com/ – to develop a one-page WordPress homepage mockup using Gutenberg Block development:

- Ensure the page is responsive and is supported across different devices (mobile, tablet, desktop).
- Page should have visual consistency across Chrome, Firefox and Safari (Mac) or Edge (Windows).
- Conduct quality assurance testing during development.
- Using Local-WP, create a WordPress site on your local environment:
    o Create a new site named "gcpe-wp-test" using custom settings and set it up to use PHP version 8.3, nginx, and MySQL:
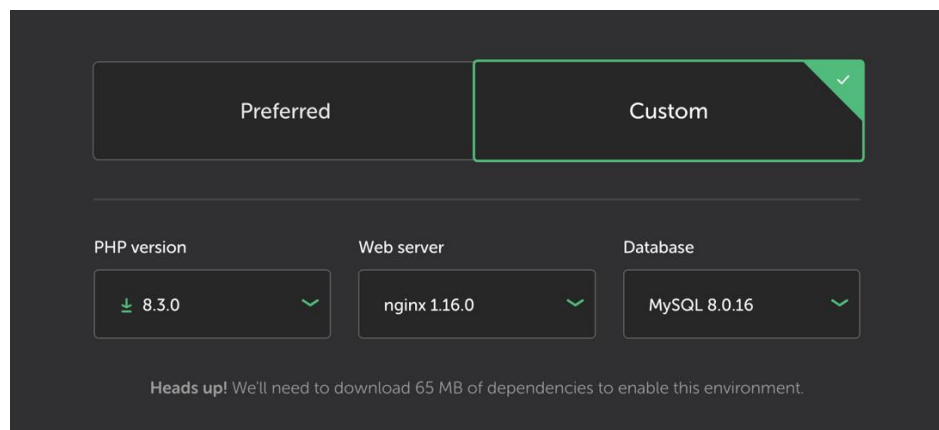
    ▪ Set the Wordpress username to 'admin' and the password to 'password'.
    ▪ If you are not familiar with the Local-WP application, it is a fast and easy way to deploy a local WordPress instance for development purposes. Once you have completed the task as outlined below you will export the site to a zip archive which you will provide for evaluation.

    o The page must use the "BCGov Block Theme" WordPress theme found at https://github.com/bcgov/bcgov-wordpress-block-theme – Note: the BCGov

Block Theme codebase must not be altered in any way and should be considered read-only for the purposes of this test. All design or enhancements to your page must be made using built-in WordPress blocks, site editor and styling tools, or features made available through the BCGov Block Theme.

o   After cloning the theme, it should be built locally for deployment using Composer and Node prior to deployment. If not there will be template/template part issues when using the Full Site Editor. If you choose not to do the build phase you may bypass the templating issues by creating your own template parts or page templates in the theme. Do not upload the theme to the sandbox with vendor or npm_modules directories.

o   Do not add any plugins. You may safely ignore the three plugin warnings that show in the admin interface when the BCGov Block Theme is enabled.

o   The header should use the Alpha v3 header design template part and Alpha v3 theme styles should be set unless you are building your own design/templates and parts. If building your own template parts, it should approximate the header design and functionality of https://cleanbc.gov.bc.ca – the navigation should include the Home link and the search bar button and toggle feature should be available.

o   All other page elements can be based on your own effort. You may use patterns provided in the BCGov Block Theme as desired.

Format:

The final site should be exported from the Local-WP as a zip file. The final zip archive, along with the "SECTION 2 – Wireframing and website design management" and "SECTION 4 – Website audit part 2" documents should be provided with your submission.

The zip file alone will be too large to email, so please provide all assets via GitHub in the manner outlined below in: "Providing your files".

Intro:

This position will develop WordPress websites following the Web Content Accessibility Guidelines (WCAG).

Directions:

Please explain how your website in "SECTION 3 – Website development" follows the four principles of WCAG, including accessible content, images, code, and markup.

Format:

This should be in the form of a Word Doc.

Answer:

My website completed in section 3 follows the four principles of WCAG, namely, perceivable, operable, understandable and robust, as follows:

Perceivable:

The content has been designed with information being readable in text and updated with more meaningful images. For example, the image for "Learn about heat pumps" has been replaced by an image of an air conditioner. "Search for Rebates" image has been replaced with a couples using their laptop for research. The content is also accessible with screen reading abilities in both the text and images.

Operable:

The navigation has been reordered and allows users to be accessible to all the components using a keyboard without a mouse. For better user experience, section of "New to CleanBC rebates?", "Search for Rebates", "Learn about heat pumps", "Get help from a professional", "Have questions or need help?" and "Find answers to your questions" have each been introduced with a corresponding button and the images are unclickable. This allows users to read through the information before reaching the corresponding button to decide if they should further proceed to the next page. More importantly, this removes the redundancy of having two identical link available within the same section. The buttons also visually tell users that more details are available in another page.

Understandable:

The content has been reorganized by the order of importance from top to bottom. The overall mission statement is placed at the beginning of the page to catch users interested in reading through the web page. This follows by a section listing the reason to improve home's energy efficiency. After that section, the information has been further divided into the sections of "Learn more about Clean BC Better Homes" and "Where to find the support". It is important to be arranged from top-down in that order as the users need to first find out more information about CleanBC before looking for support information.

Robust:

The redesigned web page has gone through the accessibility and voice-over testing to ensure there is no error discovered from the tools. The icons, images and buttons have been updated with descriptive phase.   This results in hover-over tags and voice-over reading to be more informative especially for people with visual or auditory disabilities. The web page, supported in different browsers, has its components being aligned differently for mobile and browser view. Mobile view emphasizes even more to have important content component located in the order from top to bottom because the screen is unable to display as much information as a monitor

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Providing your files

Directions:

You will need to create a public GitHub repository and commit the SECTION 2 wireframe, SECTION 3 Local-WP export zip, and SECTION 4 website audit file to it.

If you do not have a GitHub account, they are free to create by visiting the website at github.com. On the GitHub homepage, you will see a "Sign up" button. Click on it to start the registration process. Once your account is set up you will be able to create a new repository on your account's dashboard. Look for the "uploading an existing file" option in your empty repo to add and commit your test files.

Please email the URL to the repository to GCPE.Recruitment@gov.bc.ca. This email will be used to timestamp your submission.