**Reflective Report of the website**

Introduction:

This research explores the process of building a static website using HTML and CSS. This project follows the professional online standards, including responsive design, accessibility, and usability best practices. The website features a responsive component that employes CSS Flexbox or Grid, maintains uniform layout, and includes a homepage that connects to multiple subpages. Additionally, external services are integrated. This report discusses my prior knowledge, the planning and research stages, the challenges faced, and the insights gained.

* Wireframes:

A screenshot of a phone

AI-generated content may be incorrect.

* User Persona:

Name: James

Age: 28

Occupation: Explorer

Goals: James wants the high-quality, handcrafted baked goods with unique flavors and ingredients. He interested in varieties of the cheesecakes and the seasonal bakery items.

Frustrations: He dislikes the complicated and non-attractive websites prefers clean, attractive website designs that let him quickly view the menu and decide.

1. Prior Knowledge and Application:

Prior to this project, I had a basic grasp of HTML and CSS, which included the fundamental page structuring, styling and simple layouts. However, my experience with responsive design methods such as Flexbox and Grid, as well as accessibility best practices, was limited.

Earlier, I have knowledge how to organize the website using semantic HTML elements like <header>, <nav>, <main>, <section> and <footer>, which provide a great document outline. For designing, I used CSS to make a great design across all pages, including color scheme and spacing.

1. Skilled Learned:

The most important skills I learned from this project was implementing responsive layouts using CSS Flexbox and Grid. I used Flexbox for the navbar menu to ensure it adapts all screen sizes, while CSS grid help structure the gallery section on one of the sub-pages. I have learned new things like flex-direction justify-content, align-items and grid-template-column.

On the other hand, I gained the knowledge of web accessibility, including:

Using semantics HTML to ensure the screen compatibility

Adding ‘alt’ text to images

Proper color contrast for readability

1. Challenges Faced and Solutions:

I faced a lot of issues to make the layouts responsive across all various screens. Firstly, my Flexbox implementation caused overlapping elements on smaller screens. To fix this, I used the media queries to adjust the font-sizes, padding and columns dynamically. Then after, I have tested my website on different devices using the browser developer tools to check the responsiveness of the website.  
  
Now, all things are almost sorted to make the website responsive. However, in my website the landing page has a great attractive video that gives the hint of the bakery. As I made the changed for the all-screen readers, unfortunately my video doesn’t work well with the different screen sizes. To make the video responsive, I used the flex condition and change the padding in media queries and after that all the things were sorted.

1. Easy and Difficult Part of the Project:

Easy:

Developing the basic HTML Structure pf the semantic layouts had come naturally due to before experience and working with the HTML code. Additionally, styling CSS were easy and defining the great fonts, colors, and basic spacing was straightforward. Moreover, I though that adding video on landing page was little bit difficult, but it was simpler than expected.

Difficult:

As I am not much familiar with the grid and flexbox scenarios, I found bit hard to nest the complex grids and that required many trials and error.

1. Future Applications of Skills:

After completion of this project, I gained a lot of skills, and it will be invaluable in my future web development work. I have confidence that now I can create a great responsive, accessible website for the clients, and I can work as Freelancer. Also, this module prepares me for gaining knowledge in JavaScript and front-end frameworks like React, React-js, Node-js and many more.

1. Future Applications of Skills:

Overall, this project helped me a lot to improve my HTML and CSS proficiency. The practical experience with the accessibility and responsive design was very helpful. But I am looking forward to improving such areas as:

JavaScript Integration: Improving interactivity

Performance Optimization: Acquiring knowledge of methods such as picture compression and lazy loading.

Advanced CSS Frameworks: For quicker development, use Tailwind CSS or Bootstrap.

Conclusion:

To conclude, this project was very helpful to experience more HTML and CSS and that enhanced my technical proficiency and problem-solving skills. I am now more comfortable to create websites, and I am eager to learn more in depth.