

### **Added Features: -**

I am interested in developing a website that is engaging, interactive and user-friendly. To accomplish this, I incorporated three key features into my website: -

- Responsive Design
- Local storage
- Dynamism

I have added the feature of my website being responsive as it is crucial, so that my website can be viewed on different devices, such as mobiles, tablets, desktops. I wished to make sure that my website layout and its content adjusted automatically according to the device to provide the best user experience.

Dynamism is also an important attribute, allowing me to create an engaging and interactive user experience for the users. I used languages such as JavaScript, HTML5 and CSS to add dynamic features such as hover effects on the navigation bar, fade in and fade out effects on scrolling up and down through the chosen tab on the website.

Finally, I have incorporated local storage in my website. It is a feature that allows websites to store the data on a user's device, which can be accessed even if the user is offline, or the website has been refreshed. This allows myself to store the user preferences and other information, improving the user experience of my website.

I believe that incorporating these three attributes to my website, it will make it more user friendly, engaging, and interactive.

## **Responsiveness and its testing: -**

To attain seamless and enjoyable user experience across all devices, I have implemented a responsive design using modern development frameworks such as Bootstrap. This includes using media queries to adjust the layout and content of my website based on the screen size of the device.

To test the responsiveness of my website, I used automated testing tools as well as manual testing tools. I tested my website manually by accessing it on different devices with a variety of screen sizes and orientations. This allowed me to identify inconsistencies in the layout and content of my website on different screens and make the adjustments accordingly.

I also used automated testing tools such as Browser Stack, to test the responsiveness of my website. This website simulated different devices and screen sizes to provide an understanding on how my website performs under various conditions.

During the process of testing, I encountered several issues. An example: - some of the images on the website weren't aligned or resized properly on smaller screens. I was able to fix these inconsistencies by adjusting my CSS and JavaScript file.

Overall, I am confident that my website is responsive and provides an enjoyable and seamless user experience across screens of different resolutions and orientations and sizes.

### **Changes between Initial and Final design: -**

My initial implementation of the website was that it was static that lacked responsiveness, dynamism, and local storage. The images were static, and the website was not optimized for different devices and screen sizes or orientations.

To add dynamism to my website, I incorporated the reveal on scroll functionality and the hover effects. This allowed the content of the website to reveal as the user scrolled down the selected page, adding dynamism to my website, improving the user experience.

To make the website responsive, I used modern web development frameworks such as Bootstrap. I incorporated media queries and responsive images to ensure that my website is optimized for different devices and screen sizes, allowing for a seamless user experience on various devices.

Finally, I added the local storage functionality to my website. This tool enables me to store the user data on the browser, allowing for faster and more seamless user experience as the users would need not enter their data on the website every time, they visit it.

Overall, by implementing the features of responsive design, dynamism, and local storage, I was able to significantly improve my website's user experience.

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