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Course: WEB TECHNOLOGIES

Department: SOFTWARE ENGINEERING

Interactive Web Profile Report

1. Introduction:

The report is about the task of developing interactive web profile for a client, as a junior frontend developer in a tech company. Using HTML, CSS, and JavaScript. The web profile consists of one page having a navigation to certain options, a theme toggler button, welcome note with profile photo and contact portion to submit reviews.

Moreover, the web profile styling through basic CSS to make it attractive and user friendly. The reports also cover the functionality of each element, the technology used and challenges faced during developing the web profile page. Screenshots of web profile page also included.

Technology:

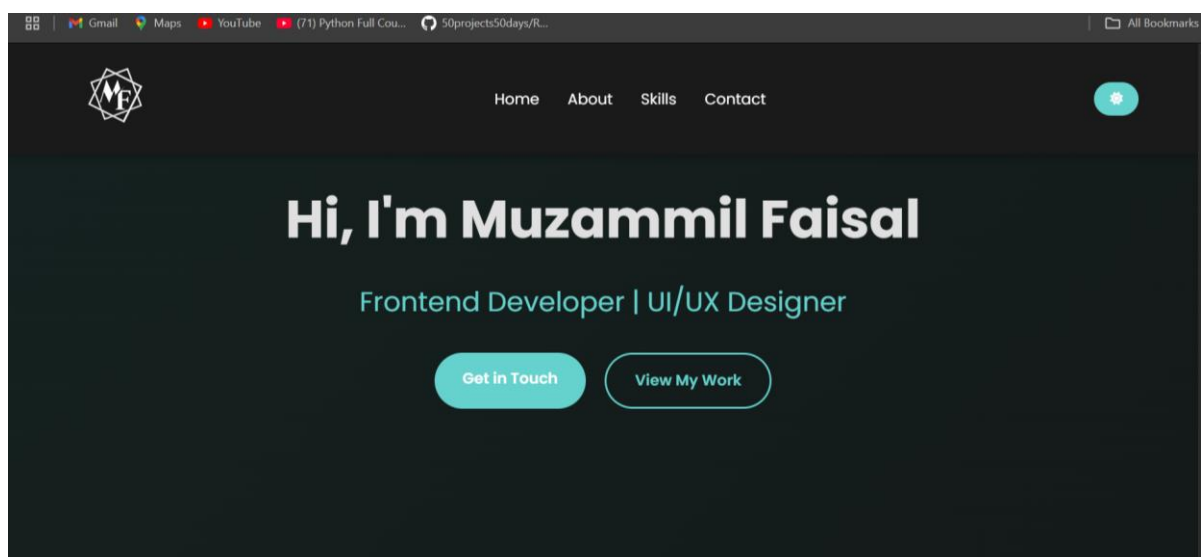
The basic web application is based on three basic web technologies that are given below;

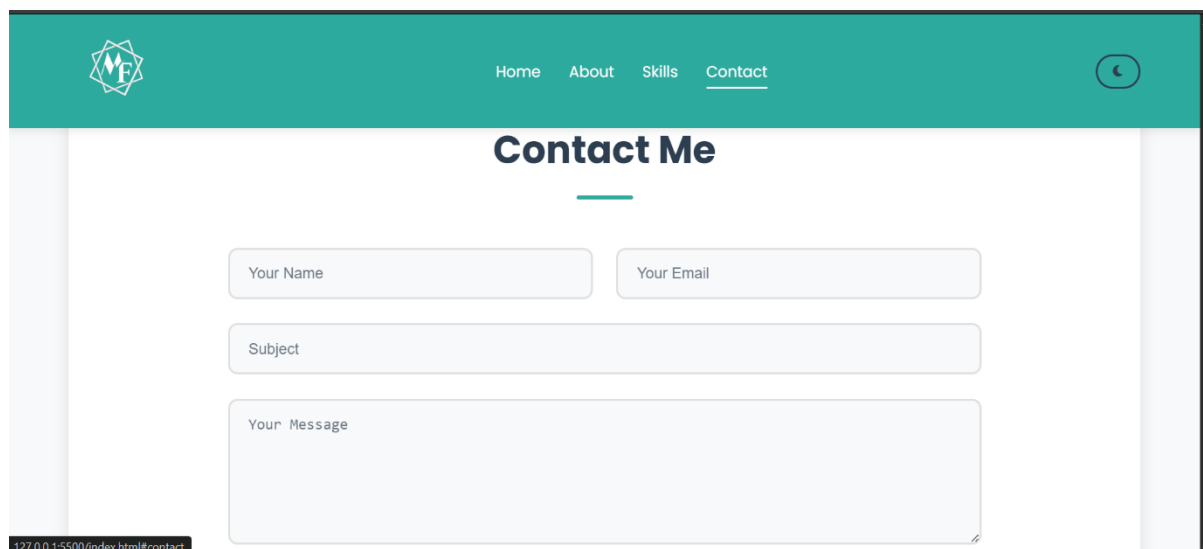
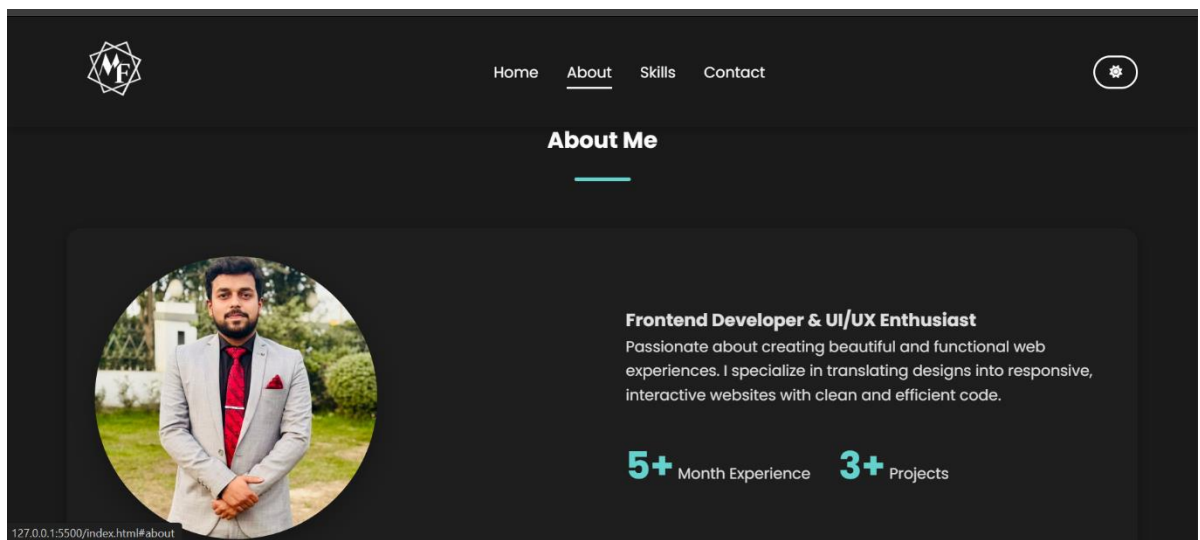
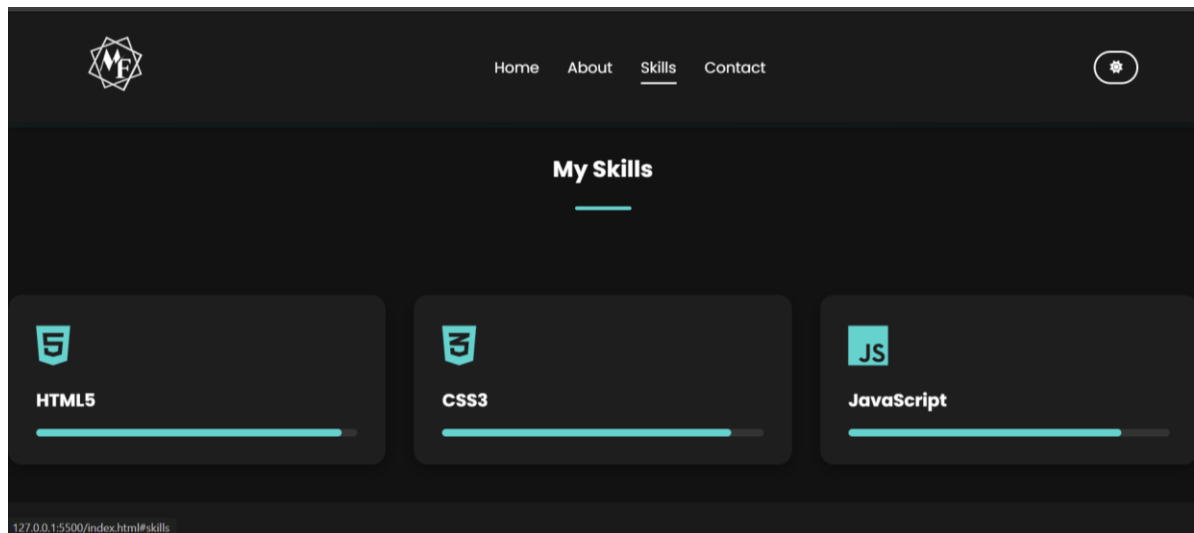
HTML: Hypertext Markup Language is used for creating the structure, elements such as headings, image, paragraphs, buttons, links and forms.

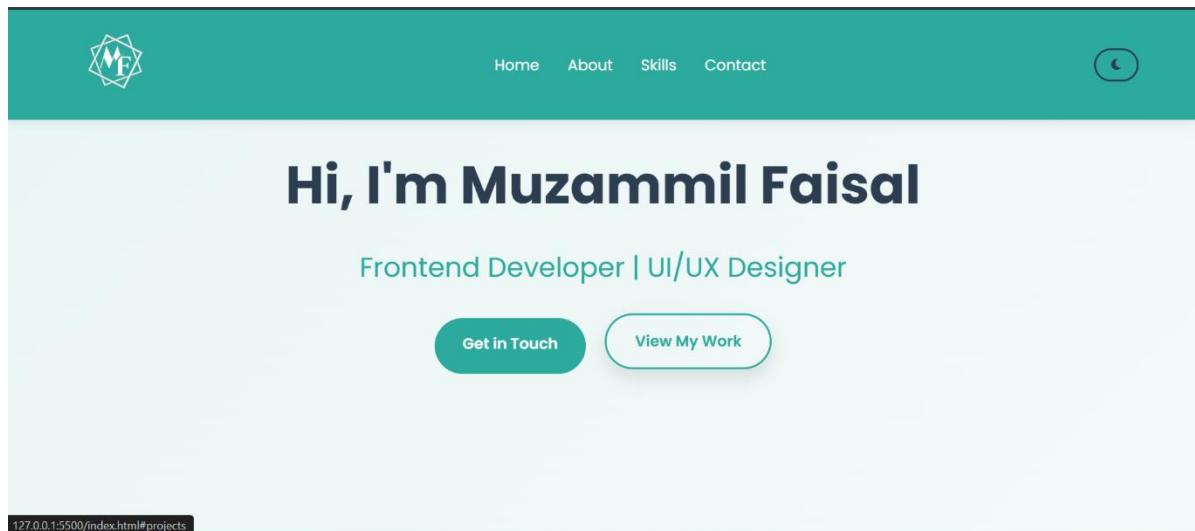
CSS: Cascading Style Sheet is used to make the web page attractive, by using different colors, sizing, setting layout, and appealing design.

JavaScript: This is used to make the web page interactive to user by toggle theme from light mode to dark mode and vise-versa. It can change dynamically with the help of button, validation of forms before submission, making the web page functional.

Each of these technologies plays a crucial role in modern web development, ensuring usability, aesthetic appeal, and functional behavior of web profile.







Purpose and Functionality of Each Component:

The web application consists of following components;

index.html

Having a navigation menu with a three-navigation links as Home, About, Contact and a theme toggler button.

- Having a section of Home with a welcome heading text and a paragraph with some text.
- Having a section of About with profile image and after that there is heading of name and designation detail in paragraph tag.
- Having a section of Contact Me with two inputs like name and write message in the text-area.
- After inputs there is a submit button for submission of name and message and then it will display after the button.

style.css

Accessing each and every element for styling and setting the layout of page.

- Set changes according to the background theme such as dark or light.
- We can see colors, sizes, alignments of all the elements are done by using CSS.
- The profile is slightly and smoothly zoom in when hover on it.
- The buttons like theme toggler and submit are slightly move up when hover on it.
- Input areas for name and message, when they are focused the border color changes.
- There is also media queries portion which is used to enhance the responsiveness, so that it is applicable on different screen sizes.

script.js

Contains two things, one for theme toggler and other is for form submission.

- Handles dynamic theme change when the user clicks a button, on every click it will change the theme such as dark to light and light to dark.
- Handles the inputs of form such as filling every field, display the message after the submit button.
- Clears the form when the information has submitted.

Challenges and Solutions:

The styling of image is difficult initially.

1. The issue is that I want to smooth zoom in the image when we hover on it. The hover effects worked but not smooth. In answer to this challenge, I have used transition or transform property to add smooth animation, now it becomes more realistic.

2. At second, the alignment of inputs elements in the Contact Me section. I have used the flexbox and justify-content property for proper alignment but nothing worked. Then, I add tag in index.html file between the input and text-area so that they are aligned vertically accurate.

3. The most of the time I spend on setting the text of theme toggler button. Because when we click to dark mode, the button text was remains Dark Mode, which is not suitable for coming back to light mode. So, in solution to this I add if-else statement with event-listener in script.js file, whenever I clicked the theme toggler button, theme will change along with the text of button. If there is light theme on page, text on button will Dark Mode and if there is dark theme on page, Light Mode text on the button.

Conclusion:

In the summary to this context, a basic and interactive web profile for a client has created which can be used as a junior developer. It can be enhanced to advanced one by the passage of time by adding more sections and styling to it with JavaScript for functionality. Here is the link to view the Web Profile Page: <https://faisal18.infy.uk/profile.html>