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1. A brief description of the chosen theme and concept for the SVG illustration.

For my SVG illustration, I decided to go with a fun and interactive **404-error page** that has a **space theme**. The main feature is a **floating moon face** that adds a playful touch to the usually disappointing experience of landing on a 404-error page.

The moon face isn't just static; its eyes move from left to right and its moon-holes change color, adding a dynamic element to the design. But the real fun begins when you hover over the screen. That's when the numbers "4" appear on both sides of the screen, clearly indicating a "404" error. Along with this, the phrase "**Houston, we have a problem**" pops up, adding a humorous twist to the error message.

In essence, the concept behind my SVG illustration is to turn the typically frustrating experience of encountering a 404-error page into an engaging interaction for the user. The space theme adds an element of intrigue and creativity, making the error page not just a dead end, but a unique part of the website's user experience. I believe this approach transforms a negative into a positive, making the website more memorable for the user.

2. An overview of the design process, including any challenges faced and how they were overcome

During my design process, I utilized **Figma** for creating my designs and **Coolors** for finding inspiration for color schemes. Initially, I struggled with the appearance of my designs, feeling dissatisfied with how they looked. As I started coding, I encountered challenges as things didn't always go as planned. Adapting my designs to code required numerous adjustments, which was quite challenging. However, I persevered and continuously experimented with new ideas until I achieved the desired outcome.

I learned the importance of making small tweaks to both my designs and code to refine them. Additionally, I faced difficulties in managing the complexity of my code as I added more features. Over time, I learned to organize my code better, making it more manageable and easier to handle.

Overall, through patience, persistence, and problem-solving, I successfully navigated through the challenges and achieved the desired results in both my design and code.

3. Explanations of the CSS animations used and their intended effects.

Moon's Eyes Movement:

- The keyframes *"eyeAnimation"* are defined to make the moon's eyes move left and right. It starts with both eyes facing forward, then moves one eye to the left and the other to the right, giving the impression of movement.
- This animation adds a playful touch to the moon's expression.

Moon-Holes Color Change:

- The keyframes *"colorChange"* are used to change the color of the moon's moon-holes. Initially, they are filled with a dark color, then transition to a lighter shade, and finally back to a darker color.
- This subtle color change adds visual interest and depth to the moon's face.

Moon's Floating Movement:

- Multiple floating animations are applied to different parts of the moon to create a floating effect. Each animation (*floatingAnimation*, *floatingAnimation2*, *floatingAnimation3*) moves the respective element slightly up and down in a continuous loop.
- This floating movement adds dynamism to the illustration, making the moon appear weightless and whimsical.

404 Text and Message Display:

- Hover effects are defined for specific elements (#*Block1*, #*Block2*, #*Block3*) to trigger the appearance of the numbers "**404**" and the phrase "**Houston we have a problem**" when hovering over the screen.
- This interactive feature provides feedback to the user, indicating that it's a 404-error page while adding a humorous touch with the accompanying message.

4. Reflections on the overall learning experience and lessons learned from completing the project.

The project not only taught me about persistence and attention to detail but also gave me a better understanding of how to use Figma for designing and how to code animations for SVG using CSS.

I realized the importance of focusing on even the smallest details in both design and code because they can have a significant impact on the final result. Patience was key when creating animations, as it required a lot of time and effort to perfect them, but the outcome was definitely worth it.

Additionally, I learned the importance of keeping code simple and organized to make it easier to understand and manage. By streamlining my code and improving its organization, I made my work much more efficient. Overall, this project provided me with valuable skills and knowledge that I'll be able to apply to future projects.