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CART-263

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Final Project Proposal

### Colorful Memories

For my final project, I want to explore visuals and interactivity aspects in a different way. I'm interested in creating an engaging visual pattern game/ interaction that will make the user explore and interact with it. The goal is to create various challenges using sound and shapes, encouraging users to test their memory and concentration by recalling colors and sounds. The inspiration for this project came from my curiosity about the human brain and the psychological aspects of memory. In today new technological era, we have a close connection with technology. For example: on our phones we store information, such as passwords and notes, without taking the time to remember them ourselves. This observation gave me the idea for creating a memory game, challenging people to test their ability to store and recall information in a short amount of time and make the game more fun adding sounds. The game will feature short sequences of sounds, which I will record and edit, as well as customizable shapes that I will design. My goal is to create an immersive and visually appealing experience that the users can enjoy. Additionally, the game will incorporate a time element, where users will have a limited time to complete each challenge. I plan to start with a simple visual prototype of how things will be placed and gradually expand it. For this project, I will use HTML, CSS, and JavaScript, as these are the languages I've been working with recently. The most challenging part will be organizing the structure of the code to ensure everything works in a flow together, as well as refining the visual design to make the experience more engaging for the user.

For this reason, I plan to start by focusing on the structure and organization of the page, determining how the shapes will be arranged into the canvas. This will be done with the help of CSS and HTML. I will also create separate files to store my sound and image assets. Once the basic structure is in place, I will incorporate JavaScript. My first step will be connecting the sounds to their corresponding shapes. An important challenge will be programming the sounds and shapes to appear in a random order, ensuring that the arrangement is different each time the user will reload the page or pass to the next level.

Finally, to address the technical challenges of the project, I will create a simple initial interaction for the user, and then gradually add animations and visual effects to enhance the experience.

