Web Development – Mr. Goldman

Level 3 Project – Code Breaker

**Project Overview**

As an international sneak thief, you break into vaults all the time. Riddling out a simple 3 digit code is child’s play for you. But can you do it in 20 seconds? You must be getting sloppy in your old age because you’ve tripped an alarm. In 20 seconds, the police will be all over the place. Can you get into the vault in time?

**The Page**

Dress up the page nicely with colors and images.

The user will have to crack a 3 digit random code in 20 seconds (or 5 turns). Each time the user completes a 3 digit guess, the computer will tell him or her whether the code is higher, lower, or correct.

There are 4 major sections on the page:

1. The clock
   1. The clock will start at 20 seconds and begin counting down as soon as the user clicks the start button.
   2. If the user cracks the code, the clock will stop.
   3. If the user cannot crack the code in 20 seconds, the police will show up to arrest him or her.
2. The code buttons
   1. There will be 10 buttons on the screen including one of each digit (1 – 9) and 1 “clear” button.
   2. Any digit clicked will be immediately added to the code and displayed.
   3. If the clear button is clicked, the whole code will clear out and disappear
3. The code
   1. Each time the user clicks one of the code buttons, the output will display the code in its entirety
   2. If the code reaches 3 digits or the clear button is pressed, the code will be wiped out.

***Enhancements***

If you complete the lab quickly and are looking for enhancements, keep score by adding the leftover time. For each successful attempt, add 1 digit to the code and add 15 seconds to the clock.

**Programming Requirements**

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| * You must code your own HTML and CSS. Use of a drag and drop interface or the usage of code downloaded from the internet is not permitted. |
| * Use of deprecated code is not permitted. Use an HTML 5 reference as your guide. |
| * You must comment your name into the top of every page. |
| * Your code must be structured in a consistent and legible manner |
| * Your text must be organized through the use of sectioning tags (div, span, p, h1 – h6). Tables are acceptable for data but not for page design. |
| * Your interface must be smooth and easy to figure out for a client. |
| * Your pages must be formatted using CSS. |

*You project is to be submitted via Moodle. Compress all of the necessary files into a zip or rar file. The file should have the following name:*

*First Name Last Name Codebreaker*