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DGMD E-28 – Developing Single-Page Web Applications
Assignment 2 – Tic-Tac-Toe
Spring 2022

Web Link: https://dcardonab.github.io/DGMDE-28 SPA/assignments/A2/assignment2.html

The section of code that I'm most proud of is the communication between Javascript and CSS. I set an empty class to change background color as the player hovers over empty cells. When a cell is played, the empty class is removed (removing the hovering effect), and an X\_player or an O\_player class is added to indicate the color of the displayed text. If the player plays an occupied cell, they are notified that the cell is occupied. The manipulation of classes can be seen in the play move function below:

```
function play_move() {
   // Only allow user to input moves in PLAY state
   if (PLAY_STATE) {
       cell = this;
       document.getElementById('messages').innerHTML = '';
       // Make move only if cell is available
       if (cell.classList.contains('empty')) {
           if (CURRENT_PLAYER === 'X') {
               // Style and add player's the icon
               cell.classList.add('X_player');
               cell.innerHTML = 'X';
               CURRENT_PLAYER = '0';
           } else {
               cell.classList.add('0_player');
               cell.innerText = '0';
               CURRENT_PLAYER = 'X';
           // Make cell unavailable
           cell.classList.remove('empty');
           // Check if the move caused a player to win.
           check_winner();
       }
           display_message("You must play and empty cell!");
```