WEB FRONTEND DEVELOPMENT II

WDD 330

Ponder: Team Activity

Overview

This activity will review DOM manipulation with Javascript and events. (Chapters 6-7 from Javascript: Novice to Ninja). We will do this by building an HTML/CSS/JS based Tic-Tac-Toe board.

Instructions

Complete the following assignment as a team. Designate one team member as the "main driver" and collaborate on their copy of the code. Everyone on the team should be actively engaged in writing the code and contributing to the solution. Once the solution is working, make sure that everyone on the team gets a copy of the code. Each week let someone else be the "main driver" of the coding.

Core Requirements

Build a 3X3 board in HTML and CSS.

You could do this with either a table element, or a collection of divs. Both have their advantages and disadvantages.

Attach a `touchend` listener to the board.

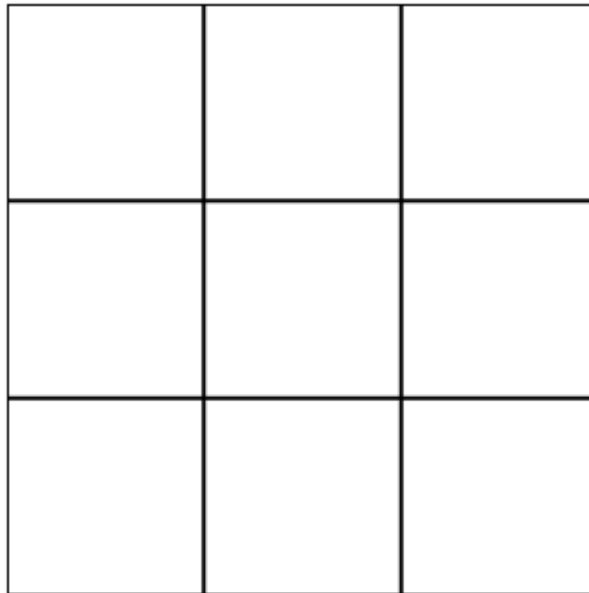When a cell is touched it should add either an 'X or an 'O', depending on whether it is player 1 or player 2's turn.
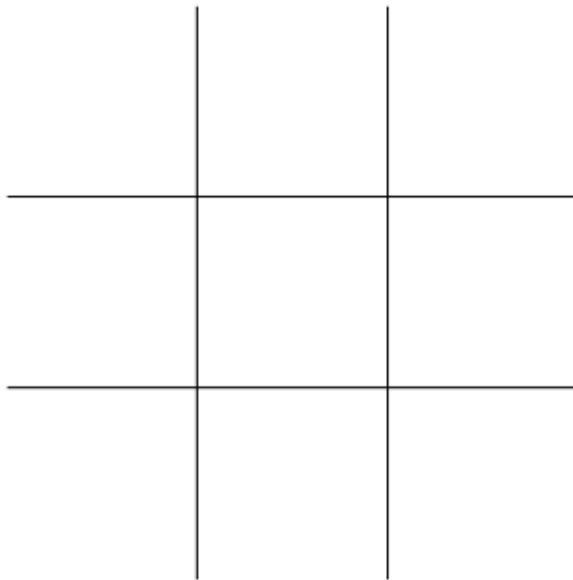
Add a reset button.

When touched the reset button should remove all of the marks from the board.

Stretch Goals

If your board looks like the first image below...make it look like the second.

Incorrect borders

Correct borders

Hint: look into `:nth-child(n)`, `:last-child`, etc for help to target specific cells to turn borders on or off.

Add Game logic

Right now the players have to decide who won, or whether it was a tie. Add some game logic to figure out when the game should result in a tie.

Add More Game logic

Add the logic to figure out when someone wins.

Instructors Solution

As a part of this team activity, you are expected to look over a solution from the instructor, to compare your approach to that one. One of the questions on the I-Learn submission will ask you to provide insights from this comparison.

Please DO NOT open the solution until you have worked through this activity as a team for the one hour period. At the end of the hour, if you are still struggling with some of the core requirements, you are welcome to view the instructor's solution and use it to help you complete your own code. Even if you use the instructor's code to help you, you are welcome to report that you finished the core requirements, if you code them up yourself.

After working with your team for the one hour activity, click here for the instructor's solution.

Submission

When you have finished this activity, please fill out the assessment in I-Learn. You are welcome to complete any additional parts of this activity by yourself or with others after your meeting before submitting the assessment.