# Project

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### Group project: Game Launcher with JavaScript UI

This project involves creating a user interface (UI) using JavaScript that allows users to choose between two games:

- Tic-Tac-Toe
- Rock Scissors Paper
- Another game of choice don't make your life too complicated

### **Project Overview**

- Technologies: HTML, CSS, JavaScript
- The games are built in JavaScript and run in the browser.
- A simple homepage (Game Launcher UI) with buttons for both games.
- Clicking on a game opens the respective game interface.
- We should be able to play, at least, the Tic-Tac-Toe game and have access to the other game, even if it isn't finished.
- Add local storage, using SqL, to track wins/losses.

#### **Evalution**

- Interface: 10%Tic-Tac-Toe: 15%
- Rock Scissors Paper: 15%
- Other game: 10%
- Code: 20% (readability, indentations, comments... the easier it is for me to understand the easier it is to get a good mark)
- Presentation: 30%
  - Explaining the choices made, explaining the interface and who did what

#### Files to submit

Use this structure to develop your project and send it to be evaluated later.

```
./group_project
game.html # Main UI
game.css # Styles for layout, should be the same for everyone
tic-tac-toe.html # Tic-Tac-Toe
tic-tac-toe.js # Tic-Tac-Toe logic
```

```
rsp.html # Rock Scissors Paper
rsp.js # Rock Scissors Paper logic
about.html # add your names
```

#### Your Tic-Tac-Toe

Verifying the logic of this game can be too much, and I don't want you working on this. So, let's use the code below:

```
function startTicTacToe() {
    const board = document.getElementById("game-container");
   board.style.display = "grid";
   board.style.gridTemplateColumns = "repeat(3, 100px)";
   let gameState = ["", "", "", "", "", "", "", ""];
   let currentPlayer = "X";
   function checkWinner() {
        const winPatterns = [
            [0, 1, 2], [3, 4, 5], [6, 7, 8],
            [0, 3, 6], [1, 4, 7], [2, 5, 8],
            [0, 4, 8], [2, 4, 6]
       ];
        return winPatterns.some(pattern =>
            gameState[pattern[0]] &&
            gameState[pattern[0]] === gameState[pattern[1]] &&
            gameState[pattern[1]] === gameState[pattern[2]]
        );
   }
    //etc, continue your work
```

Don't forget to continue the code above, it's super incomplete.

## Your Rock Scissors Paper

For this one, I want to see what you show me. You will need to work on the game logic (unlike the game above) and everything else.

## Organization

- 1. Start by creating your layout IN A SHEET PAPER, don't use your computers for this part. 1.1 Define the design of the interface, style and the main structure.
- 2. Think about the logic on how to access the game, keep scores and return to the main page. 2.1 You can use many sheets for this.
- 3. Organize yourselves: which tasks you will do, individually and in group.
- 4. Don't forget to comment your code.
- 5. Make a nice presentation!