Assignment 01

Rapid Application Development | SCS 2208

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¹ With all due respect, in an emergency please contact.

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1 Game Link

JS Dice Game (kulasinghet.github.io)

2 Code File

```
// import {rollDice} from "./diceGame";
let maxScore = 100; // max score for the game
let marks = [0, 0]; // array to store the marks
document.getElementById("btn1").addEventListener("click", () => { // event listener for
     let dice = rollDice(); // roll the dice
     document.getElementById("dice1").src = dice[3]; // set the image src for dice 1
document.getElementById("dice2").src = dice[4]; // set the image src for dice 2
          if (gameRule(dice)) { // if the player 1 can play again
               document.getElementById("btn2").setAttribute("disabled", "disabled"); //
               document.getElementById("btn1").removeAttribute("disabled"); // enable the
          } else { // if the player 1 cannot play again transfer the button to player 2
    document.getElementById("btn2").removeAttribute("disabled"); // enable the
               document.getElementById("btn1").setAttribute("disabled", "disabled"); //
          marks[0] = scoreRule(dice, marks[0]); // calculate the score for player 1
let marksString = "Score: " + marks[0]; // convert the score to string
          document.getElementById("score1").innerHTML = marksString; // set the score for
          winScenario(1):
});
document.getElementById("btn2").addEventListener("click", () => { // event listener for
     let dice = rollDice(); // roll the dice
     document.getElementById("dicel").src = dice[3]; // set the image src for dice 1
document.getElementById("dice2").src = dice[4]; // set the image src for dice 2
          if (gameRule(dice)) { // if the player 2 can play again
    document.getElementById("btn1").setAttribute("disabled", "disabled"); //
               document.getElementById("btn2").removeAttribute("disabled"); // enable the
               document.getElementById("btn1").removeAttribute("disabled"); // enable the
               document.getElementById("btn2").setAttribute("disabled", "disabled"); //
          let marksString = "Score: " + marks[1]; // convert the score to string
          document.getElementById("score2").innerHTML = marksString; // set the score for
});
```

```
const rollDice = () => { // function to roll the dice
    let dice = []; // array to store the dice values
dice[0] = Math.floor(Math.random() * 6) + 1; // first dice roll
dice[1] = Math.floor(Math.random() * 6) + 1; // second dice roll
    dice[3] = "images/dice_" + dice[0] + ".png"; // set the image src for dice 1
dice[4] = "images/dice_" + dice[1] + ".png"; // set the image src for dice 2
let gameRule = (dice) => { // function to check if the player can play again
    return dice[0] === dice[1] && dice[0] !== 1; // if the dice values are equal and not
let scoreRule = (dice, marks) => { // function to calculate the score
    if (dice[0] === 1 \& dice[1] === 1) { // if both dice are 1}
        return 0; // return marks as
lse { // if both dice are not
    } else { //
         return dice[0] + dice[1] + marks; // return the sum of the dice values plus the
const winScenario = (player) => { // function to initiate winning scenario
    document.getElementById("btn1").setAttribute("disabled", "disabled"); // disable the
    document.getElementById("btn2").setAttribute("disabled", "disabled"); // disable the
    if (player === 1) { // if the player is player 1
   document.getElementById("score1").innerHTML = "Winner!"; // set the score for
         document.getElementById("score2").innerHTML = "Loser!"; // set the score for
     } else if (player === 2) { // if the player is player 2
         document.getElementById("score2").innerHTML = "Winner!"; // set the score for
         document.getElementById("score1").innerHTML = "Loser!"; // set the score for
```