TASK 03: STOPWATCH

Index.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Stopwatch</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<div class="stopwatch">

<h1>Stopwatch</h1>

<div id="display">00:00:00</div>

<div class="controls">

<button id="STARTBUTTON">Start</button>

<button id="PAUSEBUTTON">Pause</button>

<button id="RESETBUTTON">Reset</button>

<button id="LAPBUTTON">Lap</button>

</div>

<div id="laps">

<h2>Lap Times:</h2>

<ul id="lapList"></ul>

</div>

</div>

<script src="script.js"></script>

</body>

</html>

style.html

body {

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

background-color: #f0f0f0;

font-family: Arial, sans-serif;

}

.stopwatch {

background: #fff;

padding: 20px;

border-radius: 10px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);

text-align: center;

}

#display {

font-size: 48px;

margin: 20px 0;

}

.controls button {

margin: 5px;

padding: 10px 20px;

font-size: 16px;

cursor: pointer;

}

#laps {

margin-top: 20px;

}

script.js

let timer;

let isRunning = false;

let seconds = 0;

const display = document.getElementById("display");

const startBtn = document.getElementById("startBtn");

const pauseBtn = document.getElementById("pauseBtn");

const resetBtn = document.getElementById("resetBtn");

const lapBtn = document.getElementById("lapBtn");

const lapList = document.getElementById("lapList");

function formatTime(seconds) {

const hours = Math.floor(seconds / 3600);

const minutes = Math.floor((seconds % 3600) / 60);

const secs = seconds % 60;

return `${String(hours).padStart(2, '0')}:${String(minutes).padStart(2, '0')}:${String(secs).padStart(2, '0')}`;

}

function updateDisplay() {

display.innerText = formatTime(seconds);

}

STARTBUTTON.addEventListener("click", () => {

if (!isRunning) {

isRunning = true;

timer = setInterval(() => {

seconds++;

updateDisplay();

}, 1000);

}

});

PAUSEBUTTON.addEventListener("click", () => {

if (isRunning) {

isRunning = false;

clearInterval(timer);

}

});

RESETBUTTON.addEventListener("click", () => {

isRunning = false;

clearInterval(timer);

seconds = 0;

updateDisplay();

lapList.innerHTML = ''; // Clear lap times

});

LAPBUTTON.addEventListener("click", () => {

if (isRunning) {

const lapTime = document.createElement("li");

lapTime.innerText = formatTime(seconds);

lapList.appendChild(lapTime);

}

});

// Initial display update

updateDisplay();