<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Bridging Worlds Squiggle Generator</title>

<style>

body {

font-family: 'Arial', sans-serif;

background-color: #f0f0f0;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

margin: 0;

color: #333;

}

.container {

background-color: white;

border-radius: 15px;

box-shadow: 0 10px 20px rgba(0,0,0,0.1);

padding: 30px;

max-width: 800px;

width: 100%;

}

h1 {

text-align: center;

color: #2c3e50;

}

canvas {

display: block;

margin: 20px auto;

border-radius: 10px;

box-shadow: 0 5px 15px rgba(0,0,0,0.1);

}

.controls {

display: flex;

justify-content: space-around;

margin-bottom: 20px;

}

.control {

display: flex;

flex-direction: column;

align-items: center;

}

input[type="range"] {

width: 200px;

margin: 10px 0;

}

button {

background-color: #3498db;

color: white;

border: none;

padding: 10px 20px;

border-radius: 5px;

cursor: pointer;

font-size: 16px;

transition: background-color 0.3s;

}

button:hover {

background-color: #2980b9;

}

.gallery {

display: flex;

overflow-x: auto;

padding: 20px 0;

}

.gallery img {

height: 100px;

margin-right: 10px;

border-radius: 5px;

box-shadow: 0 2px 5px rgba(0,0,0,0.1);

}

</style>

</head>

<body>

<div class="container">

<h1>Bridging Worlds Squiggle Generator</h1>

<canvas id="squiggleCanvas" width="600" height="200"></canvas>

<div class="controls">

<div class="control">

<label for="culturalValue">Cultural Influence</label>

<input type="range" id="culturalValue" min="0" max="100" value="50">

</div>

<div class="control">

<label for="personalValue">Personal Experience</label>

<input type="range" id="personalValue" min="0" max="100" value="50">

</div>

<div class="control">

<label for="technologyValue">Technological Affinity</label>

<input type="range" id="technologyValue" min="0" max="100" value="50">

</div>

</div>

<button id="saveButton">Save Squiggle</button>

<div class="gallery" id="squiggleGallery"></div>

</div>

<script>

const canvas = document.getElementById('squiggleCanvas');

const ctx = canvas.getContext('2d');

const culturalSlider = document.getElementById('culturalValue');

const personalSlider = document.getElementById('personalValue');

const technologySlider = document.getElementById('technologyValue');

const saveButton = document.getElementById('saveButton');

const gallery = document.getElementById('squiggleGallery');

function drawSquiggle() {

ctx.clearRect(0, 0, canvas.width, canvas.height);

ctx.beginPath();

for (let x = 0; x < canvas.width; x++) {

const cultural = culturalSlider.value / 100;

const personal = personalSlider.value / 100;

const technology = technologySlider.value / 100;

const y = canvas.height / 2

+ Math.sin(x \* 0.02 + cultural \* 10) \* 50

+ Math.cos(x \* 0.03 + personal \* 10) \* 30

+ Math.sin(x \* 0.01 + technology \* 10) \* 20;

const r = Math.sin(x \* 0.01 + cultural \* Math.PI) \* 127 + 128;

const g = Math.sin(x \* 0.02 + personal \* Math.PI) \* 127 + 128;

const b = Math.sin(x \* 0.03 + technology \* Math.PI) \* 127 + 128;

ctx.strokeStyle = `rgb(${r},${g},${b})`;

ctx.lineWidth = 3;

if (x === 0) {

ctx.moveTo(x, y);

} else {

ctx.lineTo(x, y);

}

}

ctx.stroke();

}

function saveSquiggle() {

const dataURL = canvas.toDataURL();

const img = document.createElement('img');

img.src = dataURL;

gallery.prepend(img);

// Save to local storage

let savedSquiggles = JSON.parse(localStorage.getItem('savedSquiggles') || '[]');

savedSquiggles.unshift(dataURL);

if (savedSquiggles.length > 10) savedSquiggles.pop(); // Keep only the last 10

localStorage.setItem('savedSquiggles', JSON.stringify(savedSquiggles));

}

function loadSavedSquiggles() {

const savedSquiggles = JSON.parse(localStorage.getItem('savedSquiggles') || '[]');

savedSquiggles.forEach(dataURL => {

const img = document.createElement('img');

img.src = dataURL;

gallery.appendChild(img);

});

}

culturalSlider.addEventListener('input', drawSquiggle);

personalSlider.addEventListener('input', drawSquiggle);

technologySlider.addEventListener('input', drawSquiggle);

saveButton.addEventListener('click', saveSquiggle);

drawSquiggle();

loadSavedSquiggles();

</script>

</body>

</html>