<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Hindi Shorthand Audio Detection</title>

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

</head>

<body>

<h1>Hindi Shorthand Audio Detection</h1>

<button onclick="startListening()">🎤 Start Dictation</button>

<input type="file" id="fileInput" accept=".txt">

<button onclick="compareText()">Submit for Comparison</button>

<h2>Detected Audio:</h2>

<textarea id="detectedText" readonly></textarea>

<h2>Your Transcription (Kruti Dev 010):</h2>

<textarea id="uploadedText" placeholder="Paste your Hindi transcription here"></textarea>

<h2>Comparison Result:</h2>

<div id="output"></div>

<script>

const detectedTextArea = document.getElementById("detectedText");

const uploadedTextArea = document.getElementById("uploadedText");

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

let detectedText = "";

function startListening() {

const recognition = new (window.SpeechRecognition || window.webkitSpeechRecognition)();

recognition.lang = "hi-IN";

recognition.start();

recognition.onresult = function(event) {

detectedText = event.results[0][0].transcript;

detectedTextArea.value = detectedText;

};

recognition.onerror = function(event) {

alert("Speech recognition error: " + event.error);

};

}

function compareText() {

const uploadedText = uploadedTextArea.value.trim();

const comparisonResult = compareStrings(detectedText.trim(), uploadedText);

output.innerHTML = comparisonResult;

}

function compareStrings(str1, str2) {

let mistakes = 0;

const maxLength = Math.max(str1.length, str2.length);

let resultHTML = "<h3>Comparison Result:</h3><ul>";

for (let i = 0; i < maxLength; i++) {

const char1 = str1[i] || "";

const char2 = str2[i] || "";

if (char1 !== char2) {

mistakes++;

resultHTML += `<li style="color: red;">Mismatch at position ${i + 1}: <b>${char1}</b> vs <b>${char2}</b></li>`;

}

}

resultHTML += `</ul><p>Total mistakes: ${mistakes}</p>`;

return resultHTML;

}

document.getElementById('fileInput').addEventListener('change', handleFileUpload);

function handleFileUpload(event) {

const file = event.target.files[0];

const reader = new FileReader();

reader.onload = function(e) {

uploadedTextArea.value = e.target.result;

};

if (file) {

reader.readAsText(file);

}

}

</script>

</body>

</html>