<!DOCTYPE html>

<html>

<head>

<title>Word Building App</title>

<style>

body {

font-family: sans-serif;

}

.container {

max-width: 500px;

margin: auto;

text-align: center;

}

.prefix, .suffix {

display: inline-block;

padding: 0.5em;

margin: 0.3em;

border: 1px solid #ccc;

border-radius: 5px;

cursor: pointer;

transition: background-color 0.3s;

}

.selected {

background-color: lightblue;

}

.dropdown {

display: none;

padding: 1em;

border: 1px solid #ccc;

border-radius: 5px;

margin-top: 0.5em;

text-align: left;

background-color: #f9f9f9;

}

.orange { color: orange; }

.turquoise { color: turquoise; }

.red { color: red; }

.green { color: green; }

.purple { color: purple; }

.blue { color: blue; }

.pink { color: pink; }

</style>

</head>

<body>

<div class="container">

<h1>Word Building App</h1>

<h2>Enter Base Word:</h2>

<input type="text" id="baseWord" placeholder="Enter a base word">

<button id="suggestButton">Suggest Prefixes/Suffixes</button>

<div id="suggestions">

<h3>Prefixes:</h3>

<div id="prefixes"></div>

<h3>Suffixes:</h3>

<div id="suffixes"></div>

<h3>New Word:</h3>

<div id="newWord"></div>

</div>

</div>

<script>

const baseWordInput = document.getElementById('baseWord');

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

const prefixesDiv = document.getElementById('prefixes');

const suffixesDiv = document.getElementById('suffixes');

const newWordDiv = document.getElementById('newWord');

// Function to apply spelling rules for suffixes like "ed" and "ing"

function applySpellingRules(baseWord, suffix) {

if (suffix === "ing" || suffix === "ed") {

if (baseWord.endsWith("e")) {

return baseWord.slice(0, -1) + suffix;

} else if (/[aeiou][bcdfghjklmnpqrstvwxyz]$/.test(baseWord)) {

return baseWord + baseWord.slice(-1) + suffix;

}

}

return baseWord + suffix;

}

const prefixData = [

{ prefix: "un", meaning: "Not", example: "Unhappy", usage: "Adjectives", spanishMeaning: "No", color: "green" },

{ prefix: "re", meaning: "Again", example: "Rewrite", usage: "Verbs", spanishMeaning: "De nuevo", color: "green" },

{ prefix: "pre", meaning: "Before", example: "Preview", usage: "Nouns, Verbs", spanishMeaning: "Antes", color: "blue" },

{ prefix: "dis", meaning: "Opposite of", example: "Disagree", usage: "Verbs", spanishMeaning: "Opuesto a", color: "purple" },

{ prefix: "mis", meaning: "Wrongly", example: "Misunderstand", usage: "Verbs", spanishMeaning: "Erróneamente", color: "red" },

{ prefix: "non", meaning: "Not", example: "Nonexistent", usage: "Adjectives, Nouns", spanishMeaning: "No", color: "orange" },

{ prefix: "over", meaning: "Excessive", example: "Overcook", usage: "Verbs", spanishMeaning: "Excesivo", color: "turquoise" },

{ prefix: "under", meaning: "Insufficient", example: "Underestimate", usage: "Verbs", spanishMeaning: "Insuficiente", color: "pink" }

];

const suffixData = [

{ suffix: "able", meaning: "Capable of being", example: "Readable", usage: "Adjectives", spanishMeaning: "Capaz de ser", color: "orange" },

{ suffix: "less", meaning: "Without", example: "Hopeless", usage: "Adjectives", spanishMeaning: "Sin", color: "red" },

{ suffix: "ness", meaning: "State of being", example: "Happiness", usage: "Nouns", spanishMeaning: "Estado de ser", color: "turquoise" },

{ suffix: "ful", meaning: "Full of", example: "Joyful", usage: "Adjectives", spanishMeaning: "Lleno de", color: "green" },

{ suffix: "ly", meaning: "In the manner of", example: "Quickly", usage: "Adverbs", spanishMeaning: "De la manera de", color: "blue" },

{ suffix: "er", meaning: "One who", example: "Teacher", usage: "verbs and short Adjectives", spanishMeaning: "si se usa con verbos El que si se usa con adjetivos mas", color: "pink" },

{ suffix: "ment", meaning: "Action or process", example: "Development", usage: "Nouns", spanishMeaning: "Acción o proceso", color: "purple" },

{ suffix: "tion", meaning: "State or quality", example: "Celebration", usage: "Nouns", spanishMeaning: "Estado o calidad", color: "turquoise" },

{ suffix: "ed", meaning: "Past tense of regular verbs", example: "Worked", usage: "Verbs", spanishMeaning: "Pasado de verbos regulares", color: "green" }

];

let selectedPrefix = "";

let selectedSuffix = "";

// Update the new word after selecting prefix and suffix

function updateNewWord() {

const baseWord = baseWordInput.value.trim();

if (!baseWord) return;

let modifiedBaseWord = baseWord;

if (selectedSuffix) {

modifiedBaseWord = applySpellingRules(baseWord, selectedSuffix);

}

let newWord = `${selectedPrefix}${modifiedBaseWord}`;

newWordDiv.textContent = `New Word: ${newWord}`;

}

// Event listener to suggest prefixes and suffixes

suggestButton.addEventListener('click', () => {

prefixesDiv.innerHTML = "";

suffixesDiv.innerHTML = "";

newWordDiv.textContent = "";

selectedPrefix = "";

selectedSuffix = "";

// Create prefix elements

prefixData.forEach(item => {

const prefixElement = document.createElement('span');

prefixElement.classList.add('prefix', item.color);

prefixElement.textContent = item.prefix;

prefixElement.addEventListener('click', () => {

document.querySelectorAll('.prefix').forEach(el => el.classList.remove('selected'));

prefixElement.classList.add('selected');

selectedPrefix = item.prefix;

updateNewWord();

showDropdown('prefix', item);

});

prefixesDiv.appendChild(prefixElement);

});

// Create suffix elements

suffixData.forEach(item => {

const suffixElement = document.createElement('span');

suffixElement.classList.add('suffix', item.color);

suffixElement.textContent = item.suffix;

suffixElement.addEventListener('click', () => {

document.querySelectorAll('.suffix').forEach(el => el.classList.remove('selected'));

suffixElement.classList.add('selected');

selectedSuffix = item.suffix;

updateNewWord();

showDropdown('suffix', item);

});

suffixesDiv.appendChild(suffixElement);

});

});

// Show dropdown with explanation and Spanish meaning

function showDropdown(type, item) {

const dropdown = document.createElement('div');

dropdown.classList.add('dropdown');

dropdown.innerHTML = `

<strong>Meaning:</strong> ${item.meaning} <br>

<strong>Example:</strong> ${item.example} <br>

<strong>Usage:</strong> ${item.usage} <br>

<strong>Spanish Meaning:</strong> ${item.spanishMeaning}

`;

const existingDropdowns = document.querySelectorAll('.dropdown');

existingDropdowns.forEach(drop => drop.remove()); // Remove previous dropdowns

document.body.appendChild(dropdown);

dropdown.style.display = "block";

}

</script>

</body>

</html>