**CODE:**

**unscramble.js:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Word Unscrambler</title>

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

</head>

<body>

<h1>Word Unscrambler</h1>

<form id="unscrambleForm">

<label for="scrambledWord">Enter scrambled word:</label>

<input type="text" id="scrambledWord" required>

<button type="button" onclick="unscramble()">Unscramble</button>

</form>

<p id="result"></p>

<script>

const dictionary = ["cat", "dog", "bat", "tab", "kabarthini"];

function unscrambleWord(scrambledWord) {

for (let i = 0; i < dictionary.length; i++) {

const word = dictionary[i];

if (isAnagram(scrambledWord, word)) {

return word;

}

}

return null;

}

function isAnagram(str1, str2) {

return str1.split('').sort().join('') === str2.split('').sort().join('');

}

function unscramble() {

const scrambledWordInput = document.getElementById("scrambledWord");

const resultOutput = document.getElementById("result");

const scrambledWord = scrambledWordInput.value.toLowerCase();

const unscrambledWord = unscrambleWord(scrambledWord);

resultOutput.textContent = `Unscrambled word: ${unscrambledWord || 'No valid word found.'}`;

}

</script>

</body>

</html>

**unscramble.css:**

body {

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

margin: 0;

padding: 0;

background-color: #f0f0f0;

}

h1 {

text-align: center;

color: #333;

}

#unscrambleForm {

max-width: 400px;

margin: 20px auto;

padding: 20px;

background-color: #fff;

border-radius: 5px;

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

}

label {

display: block;

margin-bottom: 10px;

color: #333;

}

input {

width: 100%;

padding: 10px;

margin-bottom: 15px;

box-sizing: border-box;

border: 1px solid #ccc;

border-radius: 3px;

}

button {

background-color: #4caf50;

color: #fff;

padding: 10px 15px;

border: none;

border-radius: 3px;

cursor: pointer;

}

button:hover {

background-color: #45a049;

}

#result {

margin-top: 15px;

color: #333;

text-align: center;

max-width: 100%;

overflow: hidden;

word-wrap: break-word;

}

**OUTPUT:**

