```
code=
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
  <title>Fraud Detection System</title>
  <style>
    /* Embedded CSS */
    body
    {
       font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
       background-color: #f0f2f5;
       margin: 0;
       padding: 0;
       color: #333;
    }
     .container
       width: 90%;
       max-width: 600px;
       margin: 50px auto;
       padding: 30px;
       background-color: #fff;
       border-radius: 12px;
       box-shadow: 0 8px 16px rgba(0, 0, 0, 0.1);
       transition: transform 0.3s ease-in-out;
    }
     .container:hover
       transform: translateY(-5px);
```

```
h1
{
  text-align: center;
  color: #007bff;
  margin-bottom: 20px;
  font-size: 2rem;
  font-weight: 600;
}
form
  display: flex;
  flex-direction: column;
  gap: 20px;
}
label
  font-size: 18px;
  font-weight: 500;
  color: #555;
}
input, select
{
  padding: 12px;
  font-size: 16px;
  border: 1px solid #ccc;
  border-radius: 8px;
  box-shadow: inset 0 1px 2px rgba(0, 0, 0, 0.1);
  transition: border-color 0.3s ease-in-out;
}
input:focus, select:focus
  border-color: #007bff;
```

```
outline: none;
    }
     button
       padding: 12px;
       font-size: 16px;
       border: none;
       border-radius: 8px;
       background-color: #28a745;
       color: white;
       cursor: pointer;
       transition: background-color 0.3s ease-in-out, transform 0.3s
ease-in-out;
    }
     button:hover
       background-color: #218838;
       transform: scale(1.02);
     }
     button:disabled
       background-color: #6c757d;
       cursor: not-allowed;
    }
     #result
       margin-top: 20px;
       text-align: center;
       display: none;
    }
    #loading
```

```
display: none;x
       margin-top: 20px;
       text-align: center;
    }
    #loading img
       width: 60px;
       height: 60px;
       animation: spin 1s linear infinite;
     }
     @keyframes spin
       0% { transform: rotate(0deg); }
       100% { transform: rotate(360deg); }
    }
    #resultText
       font-size: 20px;
       font-weight: 700;
       color: #007bff;
    }
     .error
       color: #dc3545;
       font-size: 14px;
    }
  </style>
</head>
<body>
  <div class="container">
     <h1>Fraud Detection System</h1>
     <form id="transactionForm">
       <label for="transactionId">Transaction ID:</label>
```

```
<input type="text" id="transactionId" name="transactionId"</pre>
required>
       <span id="idError" class="error"></span>
       <label for="amount">Transaction Amount:</label>
       <input type="number" id="amount" name="amount" required>
       <span id="amountError" class="error"></span>
       <label for="transactionType">Transaction Type:</label>
       <select id="transactionType" name="transactionType" required>
         <option value="purchase">Purchase/option>
         <option value="withdrawal">Withdrawal</option>
         <option value="transfer">Transfer</option>
       </select>
       <button type="submit">Check for Fraud</button>
     </form>
     <div id="loading">
       Checking for fraud...
       <img src="https://i.gifer.com/ZZ5H.gif" alt="Loading">
     </div>
     <div id="result">
       Transaction Result: <span id="resultText">Awaiting
Input</span>
    </div>
  </div>
  <script>
    // Get form and elements
    const form = document.getElementById('transactionForm');
    const transactionIdInput =
document.getElementById('transactionId');
    const amountInput = document.getElementById('amount');
    const resultText = document.getElementById('resultText');
    const loading = document.getElementById('loading');
```

```
const resultDiv = document.getElementById('result');
     const idError = document.getElementById('idError');
     const amountError = document.getElementById('amountError');
     // Validate form inputs
     function validateForm() {
       let valid = true:
       if (!transactionIdInput.value) {
          idError.textContent = 'Transaction ID is required.';
          valid = false;
       } else {
          idError.textContent = ";
       }
       if (!amountInput.value || amountInput.value <= 0) {
          amountError.textContent = 'Amount must be greater than 0.';
          valid = false;
       } else {
          amountError.textContent = ":
       }
       return valid;
    // Simulate fraud detection logic with async function (to be replaced
by actual backend API call)
     async function checkForFraud(transactionId, amount,
transactionType) {
       return new Promise((resolve) => {
          setTimeout(() => {
            if (amount > 1000 && transactionType === 'withdrawal') {
               resolve('Suspicious Activity Detected!');
            } else {
               resolve('Transaction is Legitimate.');
          }, 2000);
```

```
});
     }
     // Form submission handler
     form.addEventListener('submit', async function(event) {
       event.preventDefault();
       // Validate form
       if (!validateForm()) {
          return;
       }
       // Get input values
       const transactionId = transactionIdInput.value;
       const amount = parseFloat(amountInput.value);
       const transactionType =
document.getElementById('transactionType').value;
       // Display loading state
       resultDiv.style.display = 'none';
       loading.style.display = 'block';
       // Simulate fraud check
       const fraudResult = await checkForFraud(transactionId, amount,
transactionType);
       // Display result
       loading.style.display = 'none';
       resultDiv.style.display = 'block';
       resultText.textContent = fraudResult;
     });
  </script>
</body>
</html>
```