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<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Real-Time Crypto Calculator</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
  <style>
    :root {
      --primary-color: #825CFF;
      --background: #f8f9fa;
    }

    body.dark-mode {
      background-color: #121212;
      color: white;
    }

    .calculator-box {
      border-radius: 15px;
      box-shadow: 0 4px 12px rgba(0,0,0,0.1);
      transition: all 0.3s ease;
    }
  </style>
</head>
<body class="p-4">
  <div class="container calculator-box bg-white p-4">
    <button onclick="toggleDarkMode()" class="btn btn-secondary mb-3">Toggle Dark
Mode</button>
    <h2 class="text-center mb-4">💰 Crypto Profit/Loss Calculator</h2>

    <div class="row g-3 mb-4">
      <div class="col-md-6">
        <label class="form-label">Select Cryptocurrency:</label>
        <select id="cryptoSelect" class="form-select">
          <option value="bitcoin">Bitcoin (BTC)</option>
          <option value="ethereum">Ethereum (ETH)</option>
        </select>
      </div>
      <div class="col-md-6">
        <label class="form-label">Fiat Currency:</label>
        <select id="fiatSelect" class="form-select">

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        <option value="usd">USD</option>
        <option value="inr">INR</option>
    </select>
</div>
</div>

<div class="row g-3 mb-4">
    <div class="col-md-4">
        <input type="number" class="form-control" id="investment" placeholder="Investment
Amount">
    </div>
    <div class="col-md-4">
        <input type="number" class="form-control" id="buyPrice" placeholder="Buying Price">
    </div>
    <div class="col-md-4">
        <input type="number" class="form-control" id="sellPrice" placeholder="Selling Price">
    </div>
</div>

<div class="result-box p-3 mb-4 bg-light rounded">
    <h5 class="text-center">Result:</h5>
    <div id="livePrice" class="text-success mb-2"></div>
    <div id="profitLoss" class="fs-4 text-center"></div>
</div>

<button onclick="calculateProfit()" class="btn btn-primary w-100">Calculate</button>
<canvas id="profitChart" class="mt-4"></canvas>
</div>

<script>
let cryptoData = {};

async function loadCurrencies() {
    try {
        const response = await
fetch('https://api.coingecko.com/api/v3/simple/supported_vs_currencies');
        const currencies = await response.json();
        const fiatSelect = document.getElementById('fiatSelect');

        currencies.forEach(currency => {
            const option = document.createElement('option');
            option.value = currency;
            option.textContent = currency.toUpperCase();
            fiatSelect.appendChild(option);
        });
    }
}

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    });
  } catch (error) {
    console.error("Error loading currencies: ", error);
  }
}

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async function updateLivePrice() {
  const crypto = document.getElementById('cryptoSelect').value;
  const fiat = document.getElementById('fiatSelect').value;
  try {
    const response = await
fetch(`https://api.coingecko.com/api/v3/simple/price?ids=${crypto}&vs_currencies=${fiat}`);
    const data = await response.json();
    document.getElementById('livePrice').textContent = `Live Price: ${data[crypto][fiat]}
${fiat.toUpperCase()}`;
  } catch (error) {
    document.getElementById('livePrice').textContent = "Error fetching live price.";
  }
}

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function calculateProfit() {
  const investment = parseFloat(document.getElementById('investment').value);
  const buyPrice = parseFloat(document.getElementById('buyPrice').value);
  const sellPrice = parseFloat(document.getElementById('sellPrice').value);
  const fiat = document.getElementById('fiatSelect').value.toUpperCase();

  if (isNaN(investment) || isNaN(buyPrice) || isNaN(sellPrice) || investment <= 0 || buyPrice <= 0
|| sellPrice <= 0) {
    document.getElementById('profitLoss').textContent = "Invalid input. Please enter valid
numbers.";
    return;
  }

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  const units = investment / buyPrice;
  const profitLoss = (units * (sellPrice - buyPrice)).toFixed(2);

  document.getElementById('profitLoss').textContent = `Total ${profitLoss >= 0 ? 'Profit' :
'Loss': ${Math.abs(profitLoss)} ${fiat}`;
  updateChart(profitLoss);
}

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function updateChart(profitLoss) {
  const ctx = document.getElementById('profitChart').getContext('2d');
  new Chart(ctx, {

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        type: 'bar',
        data: {
            labels: ['Profit/Loss'],
            datasets: [{
                label: 'Amount',
                data: [profitLoss],
                backgroundColor: profitLoss >= 0 ? 'green' : 'red'
            }]
        }
    });
}

function toggleDarkMode() {
    document.body.classList.toggle('dark-mode');
}

document.getElementById('cryptoSelect').addEventListener('change', updateLivePrice);
document.getElementById('fiatSelect').addEventListener('change', updateLivePrice);

loadCurrencies();
updateLivePrice();
setInterval(updateLivePrice, 60000);
</script>

</body>
</html>

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