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<!DOCTYPE html>
<html>
  <!-- Cabeçalho -->
  <head>
    <title>Interface de controle do ADC</title>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <!-- Carrega arquivo contendo código css -->
    <link href="static/style.css" rel="stylesheet" type="text/css">
    <script language="javascript" type="text/javascript" src="static/jquery.min.js"
    ></script>
    <!-- Carrega arquivo contendo código javascript -->
    <script language="javascript" type="text/javascript" src="static/jquery.flot.min.js"
    ></script>
    <!-- Arquivo javaScript escrito em código -->
    <script type="text/javascript">

$(function() {

    var adcExternal = {{ adcExternal }};

    var y_axis = {{ web_data }};

    var x_axis = 0;

    var y_type = {{ ytype }};

    var y_min = {{ ymin }};

    var y_max = {{ ymax }};

    var series;

    if (adcExternal == true){
        var y_axisExternal = {{ web_data_external }};
        var y_typeExternal = {{ ytype_external }};
        var y_minExternal = {{ y_minExternal }};
        var y_maxExternal = {{ y_maxExternal }};
        var seriesExternal;
    }

    function constructData(){
        series = [];
        if (adcExternal == true){
            seriesExternal = [];
        }
        for (i=0;i<=y_axis.length;i++){
            series.push([x_axis,y_axis[i]]);
            if (adcExternal == true){
                seriesExternal.push([x_axis,y_axis[i]]);
            }
            x_axis++;
        }
    }

    var window_Samples = {{ windowSamples }};

    constructData();

    var get_data = true;

    var refresh_type = {{ interface_refreshType }};

    var refresh_time = {{ interface_frameRate }};

    function plotData(){
        var current_data = series.splice(0,window_Samples);
        if(adcExternal == true){

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var current_dataExternal = seriesExternal.splice(0,window_Samples);
if (y_type == 0 && y_typeExternal == 0){
    $.plot("#placeholder", [
        {data: current_data, label: "ADC interno"},
        {data: current_dataExternal, label: "ADC externo",y_axis: 2}
    ], {yaxes: [
        {}
    ],
        {position: "right"}
    });
}
else if (y_type == 1 && y_typeExternal == 0){
    $.plot("#placeholder", [
        {data: current_data, label: "ADC interno"},
        {data: current_dataExternal, label: "ADC externo",y_axis: 2}
    ], {yaxes: [
        {min: y_min, max: y_max},
        {position: "right"}
    ]}
    );
}
else if (y_type == 0 && y_typeExternal == 1){
    $.plot("#placeholder", [
        {data: current_data, label: "ADC interno"},
        {data: current_dataExternal, label: "ADC externo",y_axis: 2}
    ], {yaxes: [
        {}
    ],
        {position: "right", min: y_minExternal, max: y_maxExternal}
    });
}
}
else{
    $.plot("#placeholder", [
        {data: current_data, label: "ADC interno"},
        {data: current_dataExternal, label: "ADC externo",y_axis: 2}
    ], {yaxes: [
        {min: y_min, max: y_max},
        {position: "right", min: y_minExternal, max: y_maxExternal}
    ]}
    );
}
}
}
else{
    if (y_type == 0){
        $.plot("#placeholder", [current_data]);
    }
    else{
        $.plot("#placeholder", [current_data], {yaxis: {
            min: y_min,
            max: y_max
        }});
    }
}
}

function onDataReceived(data){
    if(adcExternal == true){
        y_axis = data[0];
        y_axisExternal = data[1];
    }
    else{
        y_axis = data;
    }
    if(refresh_type == 1){
        constructData();
        setTimeout(plotData, 10);
        $('#submit-result').text('Atualizado com sucesso.');
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        $('#submit-result-box').show(0);
    }
}

function onGetData(){
    $.ajax({
        url: '/senddata',
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        type: "POST",
        dataType: "json",
        success: onDataReceived,
        error: function(error) {
            console.log(error);
            $('#submit-result').text('Erro ao atualizar os dados.');
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\$('#submit-result-box').show(0);

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        }
    });
}

function getData() {
    if((series.length <= y_axis.length/2)&&(get_data == true)){
        get_data = false;
        onDataGet();
    }
    if(adcExternal == true) {
        if((series.length <= y_axisExternal/2)&&(get_data == true)){
            get_data = false;
            onDataGet();
        }
    }
    if (series.length <= window_Samples) {
        if (y_type == 0) {
            $.plot("#placeholder", [series]);
        } else {
            $.plot("#placeholder", [series], {yaxis: {
                min: y_min,
                max: y_max}
            });
        }
        constructData();
        get_data = true;
    } else {
        plotData();
    }
    if (refresh_type == 0) {
        setTimeout(getData, refresh_time);
    }
}

if (refresh_type == 0) {
    setTimeout(getData, refresh_time);
}

$('#save-button').click(function() {
    var csv = y_axis.join();
    csv = csv.replace(new RegExp(',', 'g'), '\n');
    var csvData = 'data:application/csv;charset=utf-8,' + encodeURIComponent(csv);
    $(this)
        .attr({
            'download': 'dados.csv',
            'href': csvData,
            'target': '_blank'
        });
});

$('#close-submit').click(function() {
    $('#submit-result-box').hide(0);
});

$('#refresh-button').click(function() {
    if(refresh_type == 1) {
        onDataGet();
    }
    else {
        $('#submit-result').text('Não é possível atualizar no modo contínuo.');
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\$('#submit-result-box').show(0);

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    }
}
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});

$("#reset-button").click(function() {
    x_axis = 0;
    if(refresh_type == 1){
        constructData();
        setTimeout(plotData, 10);
        $('#submit-result').text('Eixo x resetado com sucesso.');
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        $('#submit-result-box').show(0);
    }
});

$('#config-button').click(function() {
    refresh_time = $('#interface_frameRate').val();
    window_Samples = $('#adc_windowSize').val();
    if ($("#interface_refreshContinuum").is(':checked')) { refresh_type = 0;
    }else{ refresh_type = 1;}
    if (refresh_type == 0){
        setTimeout(getData, refresh_time);
        $( "#refresh-button" ).prop( "disabled", true );
    }else{
        $( "#refresh-button" ).prop( "disabled", false );
    }
    if ($("#ytype_auto").is(':checked')){ y_type = 0;}
    else{ y_type = 1;}
    y_min = $('#ymin').val();
    y_max = $('#ymax').val();
    $.ajax({
        url: '/config',
        data: $('form').serialize(),
        type: 'POST',
        success: function(response) {
            console.log(response);
            $('#submit-result').text('Configurado com sucesso.');
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            $('#submit-result-box').show(0);
        },
        error: function(error) {
            console.log(error);
            $('#submit-result').text('Erro ao configurar.');
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            $('#submit-result-box').show(0);
        }
    });
});
});
</script>
</head>
<body>
<!-- Inicio da página propriamente dita -->
<div id="header">
    <h2>Toolbox</h2>
</div>
<div id="content">
    <div class="demo-container">
        <div id="placeholder" class="demo-placeholder"></div>
    </div>
    <div class="config-container">
        <form role="form">
            <div id="submit-box">
                <a href="#" id="save-button" class="export">Salvar dados</a>
                <input type="button" id="refresh-button" value="Atualizar" {% if
                interface_refreshType is equalto 0 %} disabled {% endif%}>
                <input type="button" id="reset-button" value="Resetar eixo x">
                <input type="button" id="config-button" value="Reconfigurar">
            </div>
            <div id="submit-result-box"><span id="submit-result"></span><span id=
            "close-submit">x</span></div>
            <!-- Tag que indica tabela -->
            <table>

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<thead>
  <th>Configurações:</th>
</thead>
<tbody>
  <tr>
    <td class="config-title">Número de amostras:</td>
    <td class="config-content"><input type="number" id=
      "adc_captureSamples" name="adc_captureSamples" min="0" max=
      "64000" value = "{{ noSamples }}" required></td>
  </tr>
  <tr>
    <td class="config-title">Delay de captura (ms):</td>
    <td class="config-content"><input type="number" id=
      "adc_captureDelay" name="adc_captureDelay" min="0" max="60"
      value = "{{ delayADC }}" required></td>
  </tr>
  <tr>
    <td class="config-title">Velocidade de captura (1/Tsample):</td>
    <td class="config-content"><input type="number" id=
      "adc_captureSpeed" name="adc_captureSpeed" min="0" max="999"
      value = "{{ speedADC }}" required></td>
  </tr>
  <tr>
    <td class="config-title">Offset de captura (Amostras):</td>
    <td class="config-content"><input type="number" id=
      "adc_captureOffset" name="adc_captureOffset" min="0" max="10000"
      value = "{{ offsetADC }}" required></td>
  </tr>
  <tr>
    <td class="config-title">Tamanho da janela (Amostras):</td>
    <td class="config-content"><input type="number" id=
      "adc_windowSize" name="adc_windowSize" min="0" max="64000" value
      = "{{ windowSamples }}" required></td>
  </tr>
  <tr>
    <td class="config-title">Eixo Y (min/max):</td>
    <td class="config-content"><input type="radio" name="ytype" id=
      "ytype_auto" value="0" {%if ytype is equalto 0 %} checked {%
      endif%} class="config-radio"> Automático</td>
    <td class="config-content"><input type="radio" name="ytype" value
      = "1" id="ytype_defined" {% if ytype is equalto 1 %} checked {%
      endif%} class="config-radio"> Personalizado</td>
    <td class="config-content"><input type="number" id="ymin" name=
      "ymin" min="0" max="4094" value = "{{ ymin }}" required></td>
    <td class="config-content"><input type="number" id="ymax" name=
      "ymax" min="1" max="4095" value = "{{ ymax }}" required></td>
  </tr>
  <tr>
    <td class="config-title">Taxa de atualização (ms):</td>
    <td class="config-content"><input type="radio" name=
      "interface_refreshType" id="interface_refreshContinum" value="0"
      {% if interface_refreshType is equalto 0 %} checked {% endif%}
      class="config-radio"> Continuo</td>
    <td class="config-content"><input type="radio" name=
      "interface_refreshType" value="1" id="interface_noRefresh" {% if
      interface_refreshType is equalto 1 %} checked {% endif%} class=
      "config-radio"> Sem atualização</td>
    <td class="config-content"><input type="number" name=
      "interface_frameRate" id="interface_frameRate" value = "{{
      interface_frameRate }}" min="0" max="60000" required></td>
  </tr>
</tbody>
</table>
</form>
</div>
</div>
</body>
</html>

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