Listing inbox messages in Symbian Web Runtime

This code snippet shows how to get a list of received messages in Symbian Web Runtime, using the Messaging Platform Service (introduced in S60 5th Edition).

Overview

The `device.getServiceObject("Service.Messaging", "IMessaging")` method is used to obtain access to the service object for the Messaging Service API.

After setting the correct values for the criteria object (`criteria.Type`, `criteria.Filter`, and `criteria.Filter.MessageTypeList`), the `IMessaging.GetList(criteria)` method is used for getting the list of messages synchronously.

Source: Relevant HTML components

```
<input type="radio" name="choiceType" id="sms" checked="true" />
<label for="sms">SMS</label><br />

<input type="radio" name="choiceType" id="mms" />
<label for="mms">MMS</label><br />

<input type="button" value="Get messages"
    onclick="getMessageList();" />

<select size="5" id="messageList" multiple></select><br />
```

Source: JavaScript file

```
var serviceObj = null;

window.onload = init;

// Initializes the widget
function init() {
    try {
        serviceObj = device.getServiceObject("Service.Messaging",
            "IMessaging");
    } catch (ex) {
        alert("Service object cannot be found.");
        return;
    }

    // Get the list of all messages and show it in SELECT object.
    getMessageList();
}

function getMessageList() {
    var criteria = new Object();
    criteria.Type = "Inbox";
    criteria.Filter = new Object();
    criteria.Filter.MessageTypeList = new Array();
    if (document.getElementById("sms").checked) {
        criteria.Filter.MessageTypeList[0] = "SMS";
    } else {
        criteria.Filter.MessageTypeList[0] = "MMS";
    }

    try {
        // Get list of messages
        var result = serviceObj.IMessaging.GetList(criteria);
        if(result.ErrorCode != 0) {
            alert("Error in getting messages");
            return;
        }
        showMessages(result.ReturnValue);
    } catch(exception) {
        alert("getList: " + exception);
    }
}

// Displays available messages in a list box
function showMessages(iterator) {
    var messageList = document.getElementById("messageList");
    //Iterator is the list of the files, reset to set pointer to the first
    //element.
    iterator.reset();
    //Cleaning the file list.
    while (messageList.length != 0) {
        messageList.remove(0);
    }
    document.getElementById("messageList").style.display = "block";
    var item;
    while ((item = iterator.getNext()) != undefined) {
        var node = document.createElement("option");
        //Value of option consists of the full path.
        node.value = item.MessageId;
        node.appendChild (document.createTextNode(item.Sender + item.Time +
                item.Subject));
        messageList.appendChild(node);
    }
}
```


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Postconditions

- After loading, a listbox with all messages from inbox (SMS or MMS) is shown.
- The user can choose the type of message.
- Thw list box contains the "From", "Data/Time", and message text fields.

Supplementary material

You can view the source file and executable application in the attached ZIP archive. The archive is available for download at Media:Listing inbox messages in WRT.zip.

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