Checking battery level in Symbian Web Runtime

This code example shows how to obtain the charge level and charger connection state of a device on Symbian Web Runtime.

Overview

The example uses the SystemInfo Service API . There are two versions of this particular API, one for WRT 1.0 and one for WRT 1.1. Both versions are demonstrated in this snippet.

Note: The SystemInfo Service API for WRT 1.1 is only available from S60 5th Edition onwards. The API for WRT 1.0 is supported from S60 3rd Edition, Feature Pack 2 onwards and also in select S60 3rd Edition, Feature Pack 1 devices or their newest firmware versions (for example, Nokia E90 Communicator, from v.210.34.75 onwards).

Source (WRT 1.0)

Embed the SystemInfo widget into the document:

```
<body>
    <embed type="application/x-systeminfo-widget" hidden="yes" />
</body>
```

Put also two buttons onto the HTML page:

```
<input type="button" onclick="getChargeLevel();"
    value="Display charge level" />
<input type="button" onclick="getChargingStatus();"
    value="Display charging status" />
```

After that, the information can be obtained:

```
var sysInfo = null;

window.onload = init;

function init() {
    // Obtain the SystemInfo object
    try {
        sysInfo = document.embeds[0];
    } catch (ex) {
        alert("SystemInfo object cannot be found.");
        return;
    }
}

function getChargeLevel() {
    if (sysInfo == undefined) {
        alert("SystemInfo object is undefined.");
        return;
    }

    alert("Battery strength: " + sysInfo.chargelevel + " %");
}

function getChargingStatus() {
```


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```
    if (sysInfo == undefined) {
        alert("SystemInfo object is undefined.");
        return;
    }

    if (sysInfo.chargerconnected) {
        alert("The charger is connected.");
    } else {
        alert("The charger is not connected.");
    }
}
```

Source (WRT 1.1)

```
var serviceObj = null;

window.onload = init;

function init() {
    // Obtain the SystemInfo service object
    try {
        serviceObj = device.getServiceObject("Service.SysInfo", "ISysInfo");
    } catch (ex) {
        alert("Service object cannot be found.");
        return;
    }

    getBatteryStrength();
    getChargingStatus();
}

function getBatteryStrength() {
    // Initialize the criteria for the service object and obtain the
    // information
    var criteria = new Object();
    criteria.Entity = "Battery";
    criteria.Key = "BatteryStrength";
    try {
        var result = serviceObj.ISysInfo.GetInfo(criteria,
            displayBatteryStrength);
    } catch (ex) {
        alert(ex);
        return;
    }
}

function displayBatteryStrength(transId, eventCode, result) {
    // On error situation, display the error message
    if (eventCode == 4) {
        alert("Error " + result.ErrorCode + ": " + result.ErrorMessage);
        return;
    }

    alert("Battery strength: " + result.ReturnValue.Status + " %");
}
```


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```
function getChargingStatus() {
    // Initialize the criteria for the service object and obtain the
    // information
    var criteria = new Object();
    criteria.Entity = "Battery";
    criteria.Key = "ChargingStatus";
    try {
        // Only synchronous version of the GetInfo function can be used here
        var result = serviceObj.ISysInfo.GetInfo(criteria);
        if (result.ReturnValue.Status == 1) {
            alert("The charger is connected.");
        } else {
            alert("The charger is not connected.");
        }
    } catch (ex) {
        alert(ex);
        return;
    }
}
```

Postconditions

Battery strength and charging status are obtained.

Supplementary material

For a complete example that makes use of the SystemInfo Service API, see Media:Checking battery level in WRT.zip.

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