Blinking flashing increasing brightness of backlight in WRT

Overview

This code snippet demonstrates how to control the backlight of a device on Symbian Web Runtime, using the SystemInfo Service API WRT version 1.0.

The API is supported from S60 3rd Edition, Feature Pack 2 onwards. It is also supported 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

Embed the SystemInfo widget into the document:

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

Add three buttons to control the backlight:

```
<input type="button" onclick="lightOn();" value="Light on" />
<input type="button" onclick="blink();" value="Blink" />
<input type="button" onclick="lightOff();" value="Light off" />
```

The JavaScript code:

```
var sysInfo = null;

window.onload = init;

var SMOOTH = true;

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

// Switches the display light on
function lightOn() {
    if (sysInfo == undefined) {
        alert("SystemInfo object is undefined.");
        return;
    }

    // Reset the backlight state to default
    resetLight();

    sysInfo.lighton(sysInfo.lighttargetsystem, sysInfo.lightinfiniteduration,
        sysInfo.lightmaxintensity, SMOOTH);
```


(C) Copyright Nokia 2014. All rights reserved.

```
}

// Starts blinking the display
function blink() {
    if (sysInfo == undefined) {
        alert("SystemInfo object is undefined.");
        return;
    }

    // Reset the backlight state to default
    resetLight();

    sysInfo.lightblink(sysInfo.lighttargetsystem,
        sysInfo.lightinfiniteduration, sysInfo.lightdefaultcycletime,
        sysInfo.lightdefaultcycletime, sysInfo.lightmaxintensity);
}

// Switches the display light off
function lightOff() {
    if (sysInfo == undefined) {
        alert("SystemInfo object is undefined.");
        return;
    }

    sysInfo.lightoff(sysInfo.lighttargetsystem, sysInfo.lightinfiniteduration,
        SMOOTH);
}

// Sets the backlight of the display to default value
function resetLight() {
    if (sysInfo == undefined) {
        alert("SystemInfo object is undefined.");
        return;
    }

    sysInfo.lighton(sysInfo.lighttargetsystem, sysInfo.lightinfiniteduration,
        sysInfo.lightdefaultintensity, SMOOTH);
}
```

Postconditions

Different possibilities to control the backlight are demonstrated.

Supplementary material

For a complete example that makes use of the SystemInfo Service API to control the backlight, see Blinking flashing increasing brightness of backlight in WRT.zip

(C) Copyright Nokia 2014. All rights reserved.

(C) Copyright Nokia 2014. All rights reserved.