

# **[Tutorial] LG Web\_Implementing Functionality of Back & Exit Key**

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**LGDEV-049**

Home Entertainment Company  
LG Electronics, Inc.

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# About This Document

## Revision History

Document Version	Date	Comment
1.1	December 23, 2011	Return key is removed and source codes are modified.
1.0	October 12, 2011	Initial Version

## Purpose

This document describes how to implement functionality of Back and Exit using Web open API.

## Reference Documents

Refer to the following documents:

- LG Web Application Development Guide
- LG Web Open API Reference Guide

## Conventions

### Codes

Source code and examples are indicated in the `grey Courier New` font.

### Note, Caution

Note and caution are used to emphasize information.  
The following samples describe when each is used.

---

#### Note

Contains information about something that is helpful to you.

---

---

#### Caution

Contains important information about something that you should know.

---

## Abbreviation

The following table defines the abbreviations used in this document.

Abbreviation	Description
API	Application Programming Interface

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# 1 Introduction

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This chapter provides an overview of this application and needed APIs.

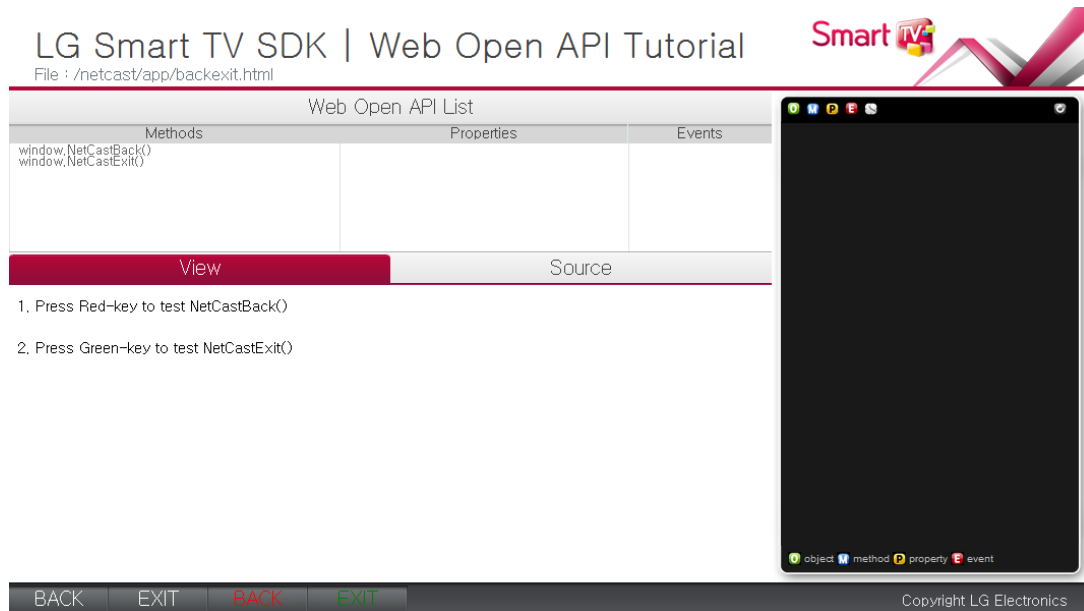
1.1 Overview

1.2 Needed APIs

## 1.1 Overview

This application is designed to show how to implement the functionality of Back, and Exit using Web open API.

This application shows which method is used to exit the application and move back to the MyApps menu or TV video in each page.



[Figure 1] Application to implement the Back/Exit Key

## 1.2 Needed APIs

This application uses following Web Open API:

[Table 1] Description of the Needed APIs

API Class	Name	Description
Method	Window.NetCastExit()	This API is used to exit or quit the application.
	Window.NetCastBack()	This API is used to move back to the MyApps menu.
Property	N/A	N/A
Event	N/A	N/A

For more information on these functions, refer to “LG Web Open API Reference Guide”.

---

### Note

Log is used for checking the sequence of Web Open API; this will not be covered in the sample code description.

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## 2 Creating Application

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This chapter describes how to implement functionality of Back, and Exit using Web open API.

- 2.1 Initializing the Page
- 2.2 Inputting Keys
- 2.3 Handling Keys
- 2.4 Source Code of backexit.html



## 2.1 Initializing the Page

Use the **initPage** function to set the basic functions of the application.

- 04: Records the last visited page when running the application.
- 07: Initializes the page.
- 08: Gets the source code of the page using the XMLHttpRequest object.
- 09: Sets the page ID.
- 10: Initializes the Log function.
- 13-16: Registers an event handler which will be executed when the corresponding button is pressed.
- 18-21: Deletes the cookie related to the application if it has been saved.

### Sample Code

```

01 : function initPage()
02 : {
03 :     //save page as last visited page
04 :     setLastVisitPage();
05 :
06 :     //common initialize function
07 :     commonInitialize();
08 :     requestSourceCode();
09 :     setPageID("Back, Exit");
10 :     jsLog.initLG();
11 :
12 :     //add onclick event handler
13 :     addEventHandler(document.getElementById("btn_back"), "click",
onClickListener);
14 :     addEventHandler(document.getElementById("btn_red"), "click",
onClickListener);
15 :     addEventHandler(document.getElementById("btn_green"), "click", onClickListener);
16 :     addEventHandler(document.getElementById("btn_exit"), "click",
onClickListener);
17 :
18 :     if(readCookie("back_exit_test_status") != "")
19 :     {
20 :         //clear back_exit_test_status cookie if it has been set
21 :         deleteCookie("back_exit_test_status", "/");
22 :     }
23 : }

```

## 2.2 Inputting Keys

The **onUserInput** function is called by the **onClickHandler** function; it receives a key value as the **userInput** parameter from **onClickHandler** and creates the corresponding function for each key value to operate the key.

- 06:    When the Back key is pressed, this code is executed.
- 07:    When the Red key is pressed, this code is executed.
- 08:    When the Green key is pressed, this code is executed.

### Sample Code

```
01 : //onUserInput function should be implemented
02 : function onUserInput(userInput)
03 : {
04 :     switch(userInput)
05 :     {
06 :         case VK_BACK : window.location.replace("../menu_netcast.html");
            break;
07 :         case VK_RED : case 82 : processRedKey(); break;
08 :         case VK_GREEN : case 71 : processGreenKey(); break;
09 :     }
10 : }
```

## 2.3 Handling Keys

The following functions are executed when each key of `onUserInput()` is pressed.

### **processRedKey**

This function is called when the Red key is pressed.

05-07: Gets the type and version of the browser through the navigator object.

11: Saves "back\_exit\_test\_status" cookie.

13: Moves back to the MyApps menu.

### **processGreenKey**

This function is called when the Green key is pressed.

27: Exits the application.

30: Shows the text on the screen if the browser of app is not a LG Browser.

---

### **Note**

If you open the main menu when "back\_exit\_test\_status" cookie has been saved, you can move to the current application through a new popup window.

---

```

01 : function processRedKey()
02 : {
03 :   if(isThisLGEBrowser())
04 :   {
05 :       var userAgentString = new String(navigator.userAgent);
06 :       var BrowserVer = userAgentString.substring(userAgentString.search(/LG Browser/) + 11);
07 :       BrowserVer = BrowserVer.split(" ", 1);
08 :       if(BrowserVer >= "3.0.23")
09 :       {
10 :           //set cookie which will be checked at main_menu.html
11 :           writeCookie("return_back_exit_test_status",
12 :               "under_testing", "/", 1 * 24 * 60 * 60 * 1000);
13 :           jsLog.lgmethod('window.NetCastBack()');
14 :           window.NetCastBack();
15 :       }
16 :       else
17 :           setInnerTextById("result_3", "Need Version over 3.0.23");
18 :   }
19 :   else
20 :       setInnerTextById("result_3", "This is not a LG Browser");
21 : }
22 : function processGreenKey()
23 : {
24 :   if(isThisLGEBrowser())
25 :   {
26 :       jsLog.lgmethod('window.NetCastExit()');
27 :       window.NetCastExit();
28 :   }
29 :   else
30 :       setInnerTextById("result_4", "This is not a LG Browser");
31 : }
32 :

```

## 2.4 Source Code of backexit.html

Source code of backexit.html is as follows:

```

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>App Template of API Unit Sample App</title>
<link rel="stylesheet" href="../../css/style.css">
<script language="javascript" src="../../js/keycode.js"></script>
<script language="javascript" src="../../js/common.js"></script>
<script language="javascript" src="../../js/menu.js"></script>

<script type="text/javascript" src="../../blackbirdjs/blackbird.js"></script>
<link type="text/css" rel="Stylesheet" href="../../blackbirdjs/blackbird.css"
/>

<script>

//initialize page
function initPage()
{
    //save as last visited page
    setLastVisitPage();

    //common initialize function
    commonInitialize();
    requestSourceCode();
    setPageID("Back, Exit");
    jsLog.initLG();

    //add onclick event handler
    addEventHandler(document.getElementById("btn_back"), "click",
onClickHandler);
    addEventHandler(document.getElementById("btn_red"), "click",
onClickHandler);
    addEventHandler(document.getElementById("btn_green"), "click",
onClickHandler);
    addEventHandler(document.getElementById("btn_exit"), "click",
onClickHandler);

    if(readCookie("back_exit_test_status") != "")
    {
        //clear back_exit_test_status cookie if it have been set
        deleteCookie("back_exit_test_status", "/");
    }
}

function onUserInput(userInput)
{
    switch(userInput)
    {
        case VK_BACK : window.location.replace("../menu_netcast.html");
break;
        case VK_RED : case 82 : processRedKey(); break;
        case VK_GREEN : case 71 : processGreenKey(); break;
    }
}

function processRedKey()
{
    if(isThisLGEBrowser())
    {
        var userAgentString = new String(navigator.userAgent);
        var BrowserVer =
userAgentString.substring(userAgentString.search(/LG Browser/) + 11);

```

```

        BrowserVer = BrowserVer.split("(", 1);
        if(BrowserVer >= "3.0.23")
        {
            //set cookie which will be checked at main_menu.html
            writeCookie("back_exit_test_status", "under_testing", "/",
1 * 24 * 60 * 60 * 1000);
            jsLog.lgmethod('window.NetCastBack()');
            window.NetCastBack();
        }
        else
            setInnerTextById("result_3", "Need Version over 3.0.23");
    }
    else
        setInnerTextById("result_3", "This is not a LG Browser");
}

function processGreenKey()
{
    if(isThisLGEBrowser())
    {
        jsLog.lgmethod('window.NetCastExit()');
        window.NetCastExit();
    }
    else
        setInnerTextById("result_4", "This is not a LG Browser");
}
</script>
</head>

<body ondragstart='return false' onselectstart='return false'
onload="javascript:initPage();">

<!-- title -->
<div class='SuiteTitle'>LG Smart TV SDK | Web Open API Tutorial</div>

<!-- navigation -->
<div class='SuiteNavigation'>
<div style="float:left;">File : /netcast/app/backexit.html</div>
</div>

<div class='SuiteTitleLine'> </div>

<!-- test contents -->
<div id='content_body' class='ContentArea'>
<div class='ApiListTitleArea'>Web Open API List</div>
<div class='ApiListArea'>
    <div class='MethodTitleArea'>
        Methods
        <div class='MethodListArea'>
            window.NetCastBack()<br>
            window.NetCastExit()
        </div>
    </div>
    <div class='PropertyTitleArea'>
        Properties
        <div class='PropertyListArea'>

    </div>
    </div>
    <div class='EventTitleArea'>
        Events
        <div class='EventListArea'>

    </div>
    </div>
</div>

<div class='ViewTitleArea'>
    <div id='tabViewArea' class='SelectedViewArea' style='float:left;'
onclick="showView();">View</div>

```

```

        <div id='tabCodeArea' class='UnselectedViewArea' style='float:right;'
onclick='showCode();'>Source</div>
</div>

<div id='view' class='ViewArea'>
    <table border="0" cellpadding="0" cellspacing="0">
        <tr height="50px">
            <td width=500px align=left><div>1. Press Red-key to test
NetCastBack()</div></td>
            <td width=200px align="left"><div
id="result_1"></div></td>
            <td width=100px align="left"></td>
        </tr>
        <tr height="50px">
            <td width=500px align=left><div>2. Press Green-key to test
NetCastExit()</div></td>
            <td width=200px align="left"><div
id="result_2"></div></td>
            <td width=100px align="left"></td>
        </tr>
    </table>

    <table border="0" cellpadding="0" cellspacing="0">
        <tr height="50px">
            <td align=left><div id="description"
class="blueColor"></div></td>
        </tr>
    </table>
</div>

<div style="visibility: hidden" id='codeview'>
    <textarea class="SourceCodeArea" value="" id='sourcecode'></textarea>
</div>

</div>

<!-- description -->
<div class='SuiteDescription' id='back_exit_test_description'></div>

<!-- button and copyright -->
<div class='SuiteButtonArea'>
<!-- back key description -->
<div id='btn_back' class='buttonDescription'>BACK</div>

<!-- exit button -->
<div id='btn_exit' class='buttonDescription'>EXIT</div>

<!-- red key description -->
<div id='btn_red' class='buttonDescription redColor'>BACK</div>

<!-- green key description -->
<div id='btn_green' class='buttonDescription greenColor'>EXIT</div>

<!-- copyright -->
<div class='copyright'>Copyright LG Electronics</div>
</div>

</body>
</html>

```