

LG Web Application Reference Code Guide

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About This Document

Purpose

This document describes guide on how to build web-based applications with video playback on LG NetCast platform.

This document is provided with the “Video Application Reference Code”, “Photo Application Reference Code” and “Music Application Reference Code”.

Reference Sample Codes

- Video Application Reference Code
- Photo Application Reference Code
- Music Application Reference Code

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.

Abbreviations

The following table defines the abbreviations used in this document.

Abbreviation	Description
RCU	Remote Control Unit

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1 Getting Started

To use the sample code provided by LG, install the sample code and check it on LG TV set.

1.1 Installing Sample Code

1.2 Checking on LG TV

1.1 Installing Sample Code

Install the sample code provided by LG.

- 1 If you do not have a web server or a web application server, install it.
- 2 Go to the web-home folder of the web server.
web-home indicates “web root”, is not a folder name.
- 3 Make a folder under the web-home folder, for example “netcastsample”, “netcastsamplevideo”, or “netcastsamplephoto”.
You can modify the folder name because it is not fixed.
- 4 Extract the zip file in folder that you made in step 3.
- 5 If the web server does not support “Auto deploy”, the web server needs to be rebooted.
- 6 Then, you can access “<http://hostname:port/folderName/index.html>” and can link with the NetCast menu on TV.

1.2 Checking on LG TV

You can add a new customized URL on the NetCast main menu in the sample TV set provided by LG.
Add a new cell and link it to the URL that contains the sample code.



2 Screen Component Overscan Area

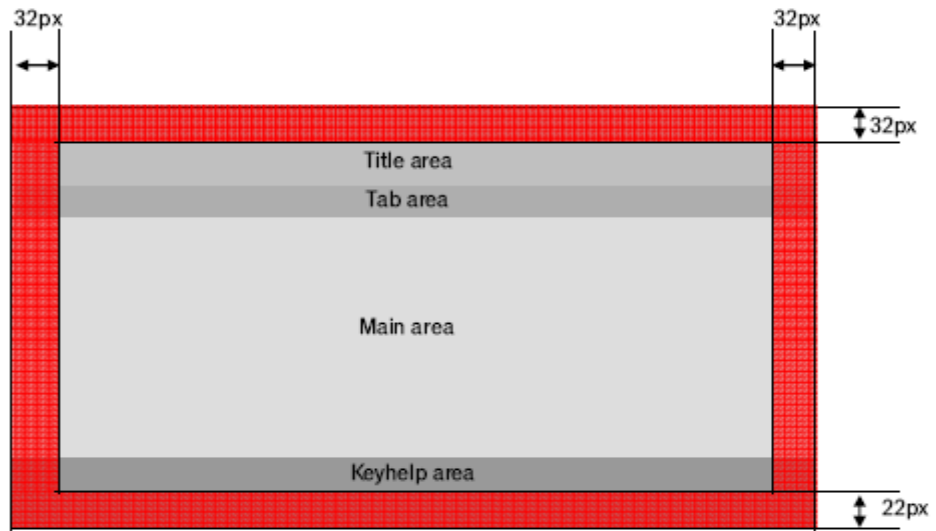
Overscan area is applied to all sample codes.

1.1 Layout of Overscan Area

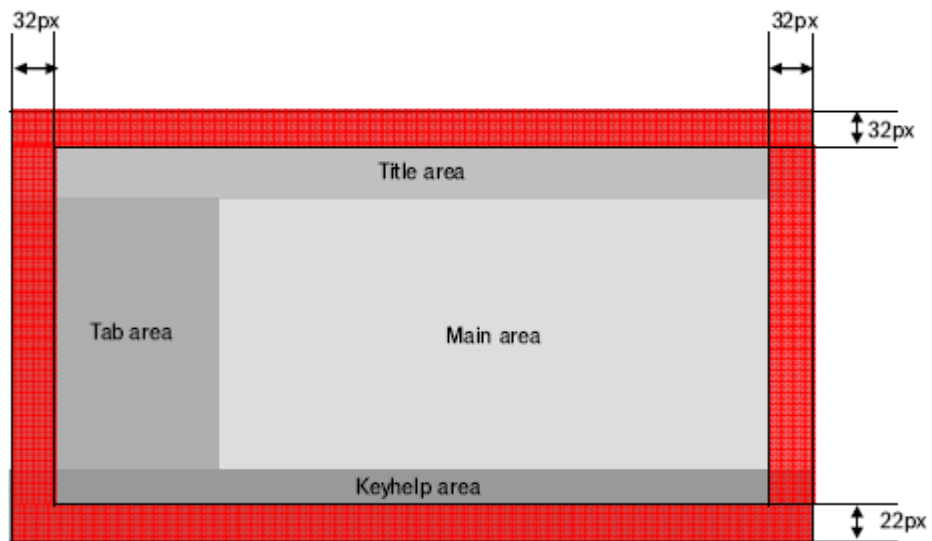
2.1 Layout of Overscan Area

Overscan area is applied to all sample codes.

Layout of overscan area is as follows.



[Figure 1] Horizontal Layout



[Figure 2] Vertical Layout



3 Reference Codes

This chapter describes the reference codes for video application, Photo Application and Music Application.

3.1 Video Application Reference Code

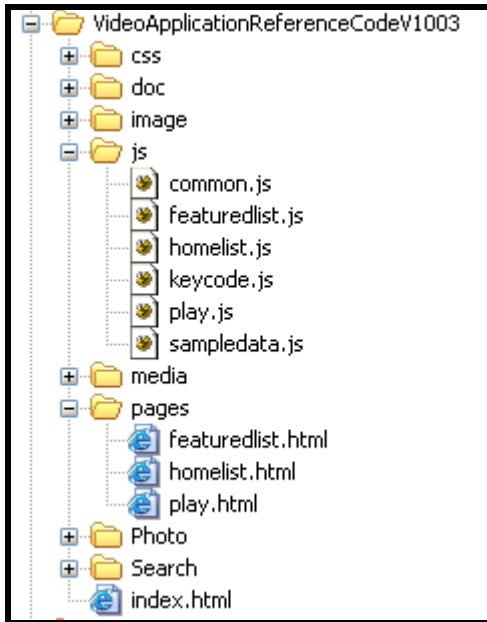
3.2 Photo Application Reference Code

3.3 Music Application Reference Code

3.1 Video Application Reference Code

3.1.1 Structure of Video Application Reference Code

Video Application Reference code consists of the following structure.



[Table 1] Structure of Video Application Reference Code

Folder	File	Description
		Context Root
	index.html	Index page of Video application
css		Cascading styles used by HTML pages
Image		Images used by HTML pages
js	keycode.js	NetCast browser's Remote Control Unit (RCU) KeyCode definition
VideoApplicati onReference Code	common.js	Common Javascript used by HTML Pages
	homelist.js	Javascript used by homelist.html (list data browse, menu control)
	featuredlist.js	Javascript used by featuredlist.html (list data browse, menu control)
	play.js	Javascript used by play.html (play control, vertical list data browse)
	sampledata.js	Sample data of this application
	media	
pages	homelist.html	Main page of this application
	featuredlist.html	List data browse page
	play.html	Media play(control) page

3.1.2 Using Video Application Reference Code

Video Application Reference code is provided to help you better understand video streaming service. However, the sample video of this application has a static link, which should be considered during development.

And this Application does not consist of dynamic pages, for example JSP, PHP.

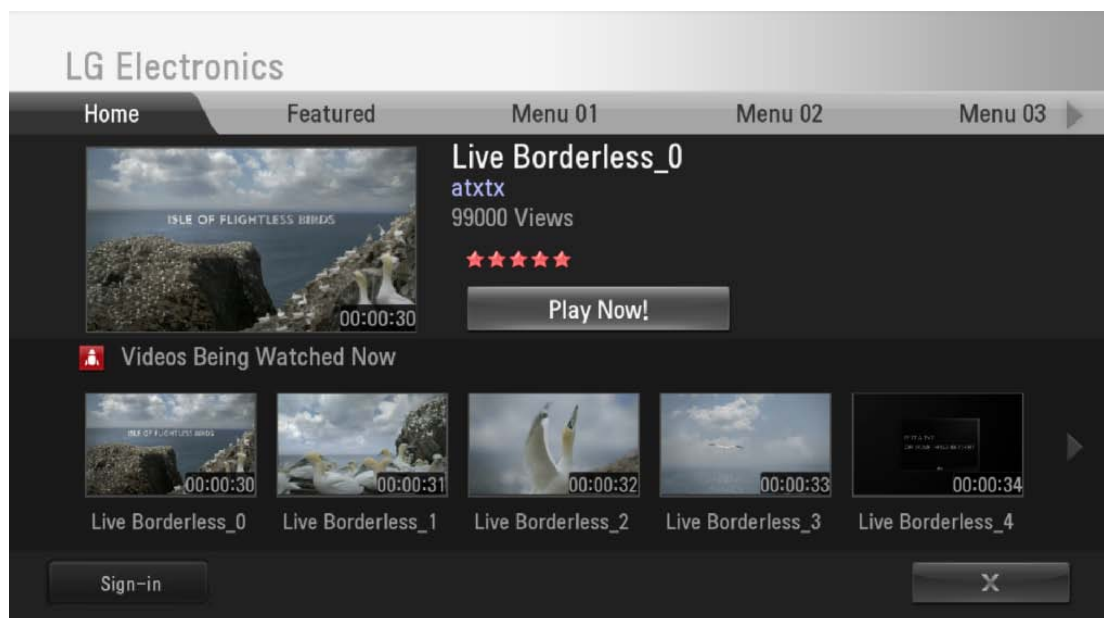
For your management convenience, it is better to convert into dynamic page by adding server-side code.

When you change this application for your needs, refer to the “LG Smart TV and Media product User Interface Guidelines” document. And if you need ‘GUI-Resource’, contact LG’s GUI-Department.

Functional Details

- Normal RCU Support
- Pointing RCU Support
- Media control bar (play / pause / drag & play)
- Full Screen play
- Speed meter bar

Main Page (homelist.html) Screen Shot

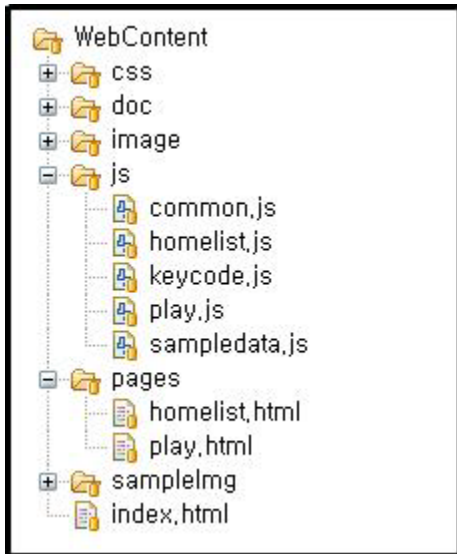


[Figure 3] Main Page (homelist.html)

3.2 Photo Application Reference Code

3.2.1 Structure of Photo Application Reference Code

Photo Application Reference code consists of the following structure.



[Table 2] Structure of Photo Application Reference Code

Folder	File	Description
		Context Root
	index.html	Index page of Photo Application
css		Cascading styles used by HTML pages
Image		Images used by HTML pages
sampleimg		Sample images used by HTML pages
doc		Document about this application (e.g., Version information)
WebContent	keycode.js	NetCast browser's Remote Control Unit (RCU) KeyCode definition
	common.js	Common Javascript used by HTML Pages
	homelist.js	Javascript used by homtlist.html
	play.js	Javascript used by play.html
	sampledata.js	Sample data of this application
pages	homelist.html	Main page of this application
	play.html	Photo play(control) page

3.2.2 Using Photo Application Reference Code

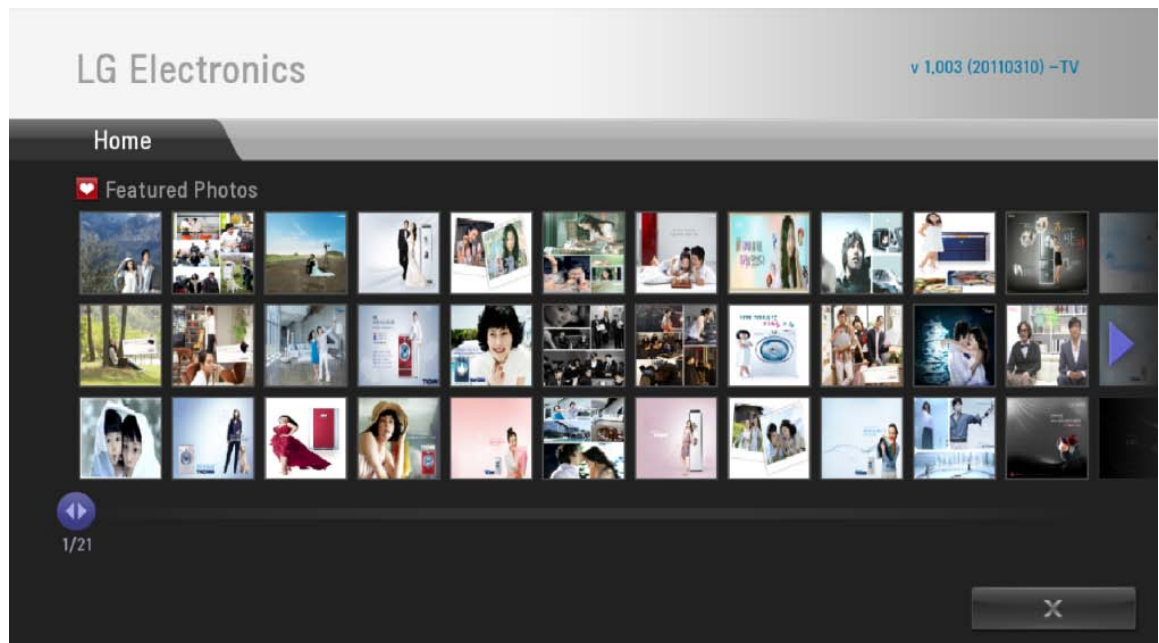
Photo Application Reference code is provided to help you better understand photo viewer service. Photo Application may have video memory issue. So, some pages that include many photos, have to use small resolution images, for example 'homelist.html'. Please keep in mind this point during development.

- When you change this application for your needs, refer to the “LG Smart TV and Media product User Interface Guidelines” document. And if you need 'GUI-Resource', contact LG's GUI-Department.

Functional Details

- Normal RCU Support
- Pointing RCU Support
- Slide show play

Photo Application Screen Shot

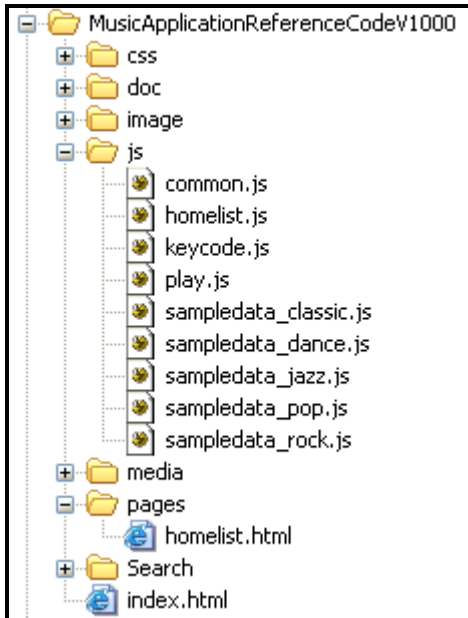


[Figure 4] Photo Application

3.3 Music Application Reference Code

3.3.1 Structure of Music Application Reference Code

Music Application Reference code consists of the following structure.



[Table 3] Structure of Music Application Reference Code

Folder	File	Description	
		Context Root	
css		Cascading styles used by HTML pages	
doc		Document about this application (e.g., Version information)	
Image		Images used by HTML pages	
MusicApplication ReferenceCode	js	common.js	Common Javascript used by HTML Pages
		homelist.js	Javascript used by homelist.html
		keycode.js	NetCast browser's Remote Control Unit (RCU) KeyCode definition
		play.js	Javascript used by music play
		sampledata_*.js	Sample data of this application
	media		Sample video
	pages	homelist.html	Main page of this application
	Search		Search Page
		index.html	Index page of Music application

3.3.2 Using Music Application Reference Code

Music Application Reference code is provided to help you better understand music streaming service. However, the sample music of this application has a static link, which should be considered during development.

And this Application does not consist of dynamic pages, for example JSP, PHP.

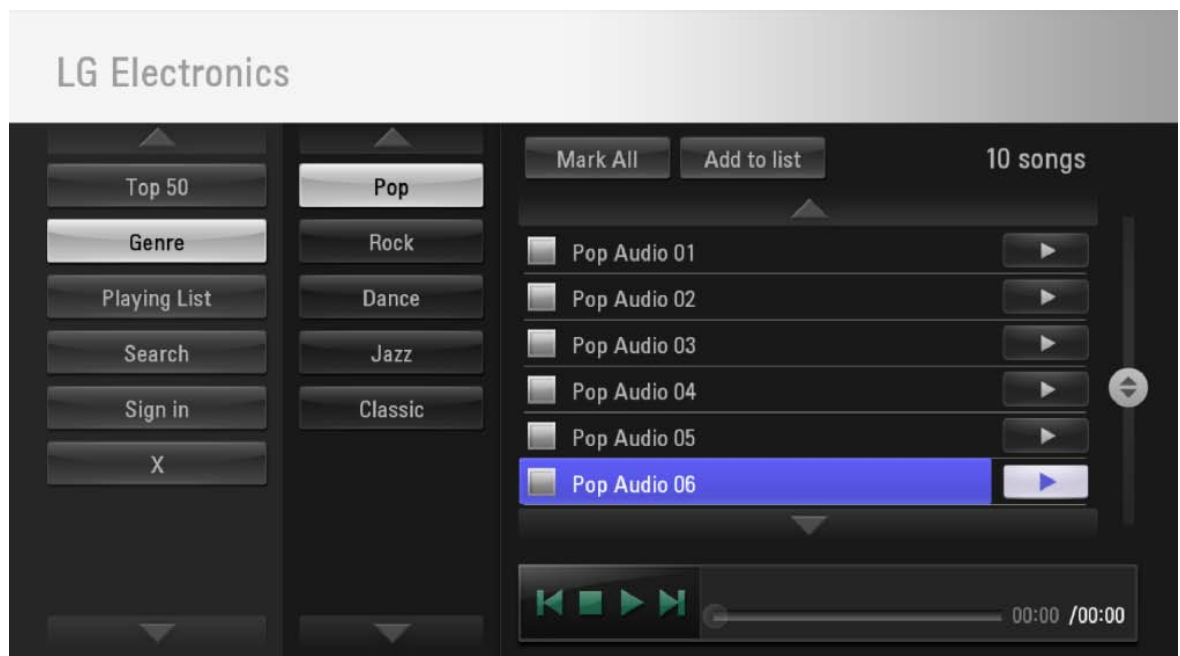
For your management convenience, it is better to convert into dynamic page by adding server-side code.

When you change this application for your needs, refer to the "LG Smart TV and Media product User Interface Guidelines" document. And if you need 'GUI-Resource', contact LG's GUI-Department.

Functional Details

- Normal RCU Support
- Pointing RCU Support
- Media control bar (play / pause / drag & play)
- Speed meter bar

Main Page (homelist.html) Screen Shot



[Figure 5] Main Page (homelist.html)