

Sample program that demonstrates how to use XMLHttpRequest POST and GET. The example is a simple roku remote app i wrote for younger kids to use.

## XMLHttpRequest Example

[kidsroku.js](#)

```
//Called when application is started.
function OnStart()
{
    //keep in portrait orientation
    app.SetOrientation("Portrait");

    //Check if roku.pref exists
    existsFile = app.FileExists( "/sdcard/kidsroku/roku.pref" );

    //check for for file existance
    if (existsFile == 0)
    {
        //create folder for preferences
        app.MakeFolder( "/sdcard/kidsroku/" );
        //default value
        address = "http://172.16.20.84:8060/";
        //write preference file
        app.WriteFile( "/sdcard/kidsroku/roku.pref", address );
    }

    // read file roku.pref
    address = app.ReadFile("/sdcard/kidsroku/roku.pref");

    //Create a layout with objects vertically centered.
    lay = app.CreateLayout( "Linear", "VCenter,FillXY" );
    //set background
    lay.SetBackground( "/Sys/Img/BlackBack.png" );

    //Create a layout we can slide over the main layout.
    //(This hidden layout is actually on top of the main
    //layout, it just appears to slide from the left)
    laySlide = app.CreateLayout( "Linear", "FillXY" );
    laySlide.SetPadding( 0, 0.1, 0, 0 );
    laySlide.SetBackground( "/Sys/Img/GreenBack.png" );
    laySlide.SetVisibility( "Hide" );

    //Create Verticle sub-layout for buttons.
    layVert = app.CreateLayout( "Linear", "Verticle" );

    //Create Horizontal sub-layout for buttons
    layHori = app.CreateLayout("linear", "Horizontal");
    layVert.AddChild( layHori);
```

```
//Create Home button.
btnHome = app.CreateImage( "Img/home.png", .25, -1 );
btnHome.SetMargins(.0,.01,.15,.08);
btnHome.SetOnTouchDown( btnHome_OnTouch );
layHori.AddChild( btnHome );

//Create Back button.
btnBack = app.CreateImage( "Img/back.png", .25, -1 );
btnBack.SetMargins(.15,.01,.0,.08);
btnBack.SetOnTouchDown( btnBack_OnTouch );
layHori.AddChild( btnBack );

//Create Up button.
btnUp = app.CreateImage( "Img/up.png",.35,-1 );
btnUp.SetOnTouchDown( btnUp_OnTouch );
layVert.AddChild( btnUp );

//Create horizontal layout2 for buttons
layHori2 = app.CreateLayout("linear", "Horizontal");
layVert.AddChild( layHori2);

//Create Left button.
btnLeft = app.CreateImage( "Img/left.png",.35,-1 );
btnLeft.SetOnTouchDown( btnLeft_OnTouch );
layHori2.AddChild( btnLeft );

//Create Select button.
btnSelect = app.CreateImage( "Img/select.png",.35,-1 );
btnSelect.SetOnTouchDown( btnSelect_OnTouch );
layHori2.AddChild( btnSelect );

//Create Right button.1
btnRight = app.CreateImage( "Img/right.png",.35,-1 );
btnRight.SetOnTouchDown( btnRight_OnTouch );
layHori2.AddChild( btnRight );

//Create Down button.
btnDown = app.CreateImage( "Img/down.png",.35,-1 );
btnDown.SetOnTouchDown( btnDown_OnTouch );
layVert.AddChild( btnDown );

//Create horizontal layout3 for buttons
layHori3 = app.CreateLayout("linear", "Horizontal");
layVert.AddChild( layHori3);

//Create button and add to main layout.
btnSave = app.CreateButton( "Save", 0.3, 0.06, "gray" );
btnSave.SetOnTouch( btnSave_OnTouch );
```

```
laySlide.AddChild( btnSave );

//Create menu
app.SetMenu("IP Address,Find Roku,Help");

//Create text edit
newAddress = app.CreateTextEdit( address, 0.8, 0.3 );
laySlide.AddChild( newAddress );

//Add verticle layout to main layout.
lay.AddChild( layVert );

//Add layout to app.
app.AddLayout( lay );
app.AddLayout(laySlide);

}

//webscript post
function webscript_post()
{
    xhr = new XMLHttpRequest();
    xhr.open('POST', address + command,true);
    xhr.timeout = setTimeout("xhr.abort()", 300);
    xhr.setRequestHeader('Content-type', 'application/x-www-form-
urlencoded');
    xhr.send(null);
    app.Vibrate( "0,20" );
}

//Called when user touches Home button.
function btnHome_OnTouch()
{
    command = 'keypress/home'
    webscript_post()
}

//Called when user touches Back button.
function btnBack_OnTouch()
{
    command = 'keypress/back'
    webscript_post()
}

//Called when user touches up button.
function btnUp_OnTouch()
{
    command = 'keypress/up'
    webscript_post()
}
```

```
//Called when user touches Left button.
function btnLeft_OnTouch()
{
command = 'keypress/left'
webscript_post()
}

//Called when user touches Select button.
function btnSelect_OnTouch()
{
command = 'keypress/select'
webscript_post()
}

//Called when user touches Right button.
function btnRight_OnTouch()
{
command = 'keypress/right'
webscript_post()
}

//Called when user touches Down button.
function btnDown_OnTouch()
{
command = 'keypress/down'
webscript_post()
}

//Called when user touches IP Adress menu item.
function btnIpAddress_OnTouch()
{
laySlide.Animate( "SlideFromLeft" );

    app.Alert( "http://172.16.20.56:8060/", "make sure to use this form
at " );
}

//Called when user touches Find Roku menu item
function btnFindRoku_OnTouch()
{
    findRoku()
}

//help
function help() {
    app.Alert("A simple roku remote for kids or anyone looking for a bas
ic easy to use remote");
}
```

```
//Called when user touches menu item Ip button
function OnMenu(item)
{
if (item == "IP Address") {
    btnIpAddress_OnTouch()
}

// Called when user touches menu item Find Roku
if (item=="Find Roku") {
    btnFindRoku_OnTouch()
}
if (item=="Help") {
    help()
}
}

//Called when user touches save button
function btnSave_OnTouch()
{
laySlide.Animate( "SlideToLeft" );
address = newAddress.GetText();
app.WriteFile( "/sdcard/kidsroku/roku.pref", address );
}

// *****

//Search network for roku
function findRoku()
{

//Get ip of device
ip = app.GetIPAddress();
startNum = ip.split (".");
ipEndd = Math.floor(startNum[3]/50);
ipEnd = ipEndd * 50+1

//Create a layout with objects vertically centered.
lay_findRoku = app.CreateLayout( "linear", "VCenter,FillXY" );

//Create a button to send request.
btn = app.CreateButton( "Find Roku", 0.9, 0.1 );
btn.SetMargins( 0, 0, 0, 0 );
btn.SetOnTouch( btn_OnTouch );
lay_findRoku.AddChild( btn );

//Create a text label to show results.
txt = app.CreateText( "", 0.9, 0.8, "Left,Multiline" )
txt.SetBackColor( "#ff222222" );
txt.SetTextSize( 12 );
```

```
lay_findRoku.AddChild( txt );

// Create a button to cancel request
btnCancel = app.CreateButton( "Cancel", 0.9, 0.1);
btnCancel.SetMargins(0, 0, 0, 0);
btnCancel.SetOnTouch( loadRemote );
lay_findRoku.AddChild( btnCancel );

//Add layout to app.
app.AddLayout( lay_findRoku );

}

//Load roku remote
function loadRemote()
{
app.RemoveLayout(lay_findRoku);
OnStart()
}

//Handle button press.
function btn_OnTouch()
{

//find device
ipArray = ip.split (".");
ipBase = (ipArray[0] + "." + ipArray[1] + "." + ipArray[2] + ".");
ipBase += ipEnd;
ipBase += ":8060/";
txt.SetText( "Checking..." + ipBase);

//Send request to roku
url = "http://" + ipBase + "/query/apps";
SendRequest( url );
}

//Send an http get request.
function SendRequest( url )
{
    httpRequest = new XMLHttpRequest();
    httpRequest.open("GET", url, true);
    httpRequest.onreadystatechange = function() { HandleReply(httpRequest); };
    httpRequest.send(null);
}

//Handle the roku's reply
function HandleReply( httpRequest )
{
```

```
if( httpRequest.readyState==4 )
{
    //If we got a valid response.
    if( httpRequest.status==200 )
    {
        resTxt = httpRequest.responseText;

        //split returned xml
        split1 = resTxt.split('"');
        split2 = resTxt.split('>');

        //get length of array split1
        split1Length = split1.length

        //get length of array split2
        split2Length = split2.length

        //build array of id's
        y = 0
        idArray = ["0"]
        for(z=1; z<split1Length; z=z+4)
        {
            idArray[y] = split1[z]
            y++
        }

        //build array of channels
        w = 0
        chanArray = ["0"]
        for(x=2; x<split2Length; x=x+2)
        {
            chanArray[w] = split2[x]
            w++
        }

        //trim array for channels
        split3Length = chanArray.length
        channels = ""
        for(v=0; v<split3Length; v++)
        {
            channels = channels + chanArray[v];
        }

        //split xml
        split4 = channels.split('</app');
        split4Length = split4.length
        t = 0
        channelsArray = ["0"]
        for(s=0; s<split4Length; s++)
        {
            channelsArray[t] = split4[s]
```

```
t++
}

//view channels
display ="Configuration Update Sucessful\n\nRoku IP:" + ipBase + "\n\n
Your Channels:\n\n"
channelsLength = channelsArray.length
for(s=0; s<channelsArray.length; s++)
{
    display = display + channelsArray[s] + "\n"
}

//set text
txt.SetText(display);

//write ip
writeFile();

//Load Roku Remote
setTimeout("loadRemote()", 3000);

}
//An error occurred
else
{
    txt.SetText( "Error: " + httpRequest.status + httpRequest.r
esponseText);

    ipEnd++
    if (ipEnd > 254)
    {ipEnd = 1}
    setTimeout("btn_OnTouch()", 250);
}
}

//write file for ip address
function writeFile()
{
app.WriteFile( "/sdcard/kidsroku/roku.pref", "http://" + ipBase );
    app.Vibrate( "0,100,30,100,50,300" );
}
}
```

This file uses .png files as buttons that will need to be created or modified to use standard buttons...i tried to upload but don't have the permission to upload pictures.



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