

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.
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 script 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 permissions to upload images.

From:

<http://wiki.droidscript.me.uk/> - **DroidScript wiki**

Permanent link:

http://wiki.droidscript.me.uk/doku.php?id=sample_code:sample_xmlhttprequest

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