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Guides

How to use Camera and Mic in CustomWebView?



By Sunny Gupta | June 27, 2023

In this guide I'll explain about using camera and mic in CustomWebView extension.

First of all create 3 global variables.

```
initialize global permissions to create empty list  
initialize global pDict to make a dictionary  
  key "android.webkit.resource.VIDEO_CAPTURE" value Permission Camera  
  key "android.webkit.resource.AUDIO_CAPTURE" value Permission Audio  
initialize global permissions2 to create empty list
```

Now setup webview on Screen initialize.

```
when Screen1 .Initialize  
do  
  set CustomWebView1 .ZoomEnabled to false  
  call CustomWebView1 .CreateWebView  
    container VerticalArrangement2  
    id 44  
  call CustomWebView1 .SetWebView  
    id 44  
  set CustomWebView1 .PromptForPermission to true
```

```

when CamTest .Click
do call CustomWebView1 .GoToUrl
   url "https://webcamtests.com"

when MicTest .Click
do call CustomWebView1 .GoToUrl
   url "https://mictests.com"

```

You'll need to setup events as following

```

when CustomWebView1 OnPermissionRequest
permissionsList
do set global permissions to get permissionsList
   set global permissions2 to get permissionsList
   if is list empty? list get permissionsList
   then call CustomWebView1 .GrantPermission
        permissions get permissionsList
   else call Screen1 .AskForPermission
        permissionName get value for key select list item list get global permissions
        index 1
        in dictionary get global pDict
        or if not found ""
        call Notifier1 .ShowAlert
        notice get permissionsList

when CustomWebView1 PageStarted
do set ProgressLabel .Visible to true

when CustomWebView1 PageLoaded
do set ProgressLabel .Visible to false

when CustomWebView1 OnProgressChanged
do set ProgressLabel .WidthPercent to get progress

```

When WebView asks for permission we store them in two global variables. One is for asking permissions and other is for granting them to WebView when we have got necessary permissions for the app. Since we can grant permissions to webview only when the App has got equivalent permissions to itself. So we get *app version* of these webview permissions which is stored in **pDict** global variable. However, if app already has all permissions then we just grant the permissions to webview.

```

when Screen1 .PermissionGranted
permissionName
do remove list item list get global permissions
   index 1
   if not is list empty? list get global permissions
   then call Screen1 .AskForPermission
        permissionName get value for key select list item list get global permissions
        index 1
        in dictionary get global pDict
        or if not found ""
   else call CustomWebView1 .GrantPermission
        permissions get global permissions2

```

After getting permission for app we remove it from the first list in order to keep the permission request flow running. But if there are no more permissions to ask for then we grant all permissions to webview.

So that's the way to access cam and mic in webview.

Here is the final Aia:

[Download WebcamWebView.aia](#)

Thank you for reading this. Hope it helps!









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