

Camera Device API Guide Program

Outline

Compass guide program is a guide application for eGov Device API, using the mobile device API framework to be used as a tool and a reference when developing hybrid applications. It supports the inquiry of Compass related functions of mobile smart devices through JavaScript-based Compass DeviceAPI. Also, it connects with web server applications based on eGov standard framework to send necessary information to server and inquire them, using photos taken with device's built-in camera and images saved in device's memory.

Feature

This Guide Program provides **send photographs taken with built-in camera to server, send images from the gallery to server, and receive image list from server** features.

Preconditions

| Category | Description |
|---------------------------------------|---|
| Local Device Environments | Xcode 6.3.2, PhoneGap 4.3.0 |
| Server-side Developmental Environment | eGov Standard Framework Development Environment 3.5 |
| Works in sync with Mash up Open API | N/A |
| Test Device | iPhone4, iPhone6 |
| Test Platform | iOS 7.1.2, iOS 8.3 |
| Libraries Added | N/A |

Restrictions

Supported devices and platforms

For iPhone devices, there may be issues due to device's processing power.

- Problem: PhoneGap error.
- Solution: delay PhoneGap loading sequence with setTimeout() function.

```
document.addEventListener('DOMContentLoaded', function () { setTimeout(loader, 200); }, false);
```

- Problem: iScroll5 content height calculation error.
- Solution: use setTimeout() to ensure iscroll is generated after css application to contents is complete.

setTimeout(function())

```

{
    myScroll = new iScroll(thisPage,
    {
        checkDOMChanges: true,
        onBeforeScrollStart:function(e)
        {
        }
    });
},
500);
Problems may occur if alert() is included in CallBack function. (phoneGap)

```

- Problem: error calling alert() message from CallBack function saved in PhoneGap.
- Solution: Use asynchronous function or avoid using functions that use thread like alert().

Using cross domain

When using certain outside domains or its subdomains on PhoneGap, add such domains on <access origin="ExternalHosts"/> at [Project_Name]/Supproting Files/config.xml

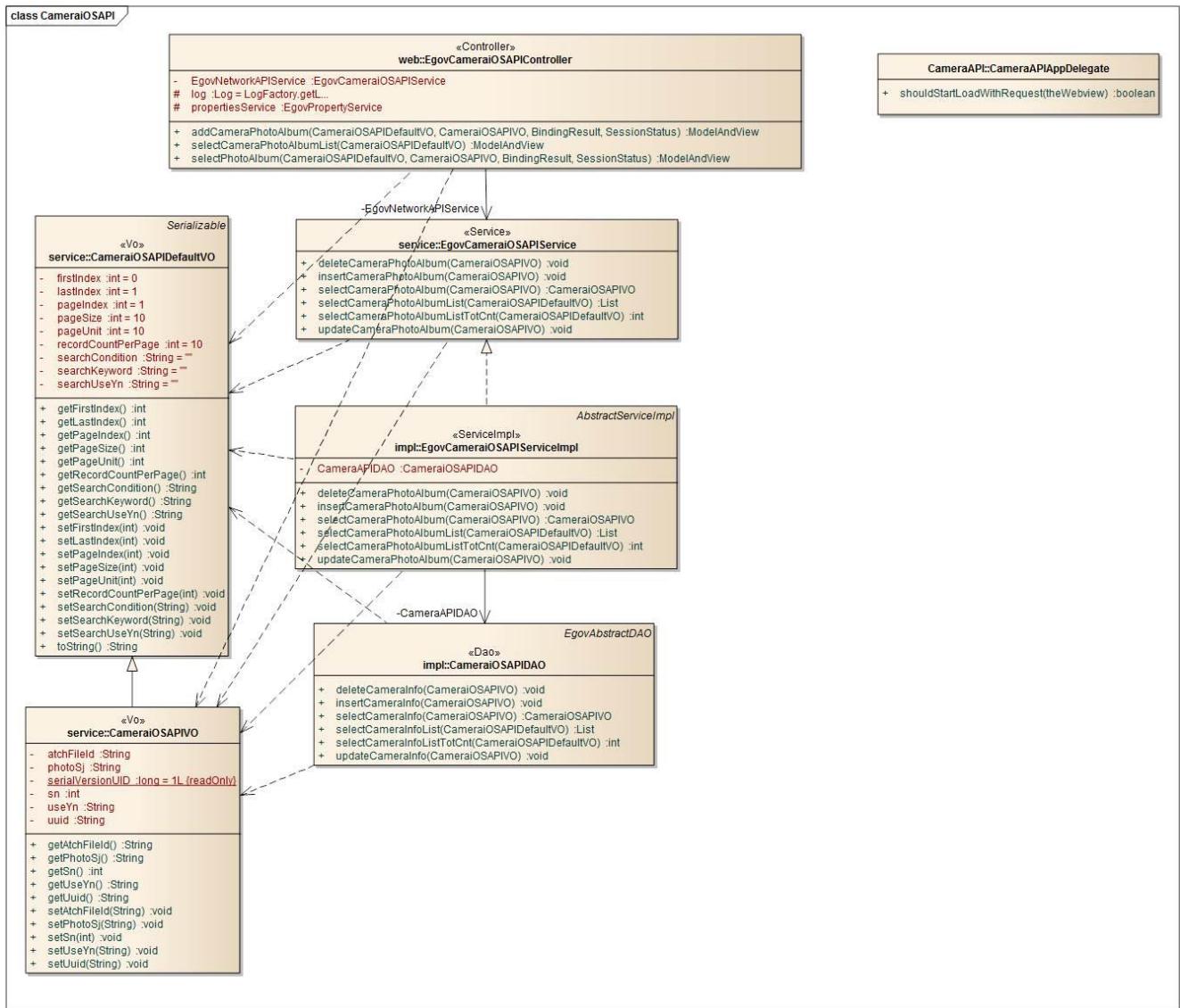
License

N/A

Description

Camera Device API Guide Program consists of send photographs taken with built-in camera to server, send images from the gallery to server, and receive image list from server features. (refer to related functions section)

Related Class Diagram



Device Application

Source

| Type | Target | Source | Remark |
|-------|----------------------------------|----------------|---|
| CSS | www/css/egovframwork/mbl/hyb/ | CameraAPI.css | CameraAPI Guide Program main Cascading Style Sheets |
| IMAGE | www/images/egovframwork/mbl/hyb/ | | CameraAPI Guide Program main Image folder |
| JS | www/js/egovframwork/mbl/hyb/ | CameraAPI.js | CameraAPI Guide Program main JavaScript |
| HTML | www/ | CameraAPI.html | CameraAPI main page |
| HTML | www/ | license.html | CameraAPI license page |
| HTML | www/ | overview.html | CameraAPI feature description page |

APIs Used

camera.getPicture

- Loads picture shot or in album
- Loads images encoded in base64 or in album

```
navigator.camera.getPicture( cameraSuccess, cameraError, [ cameraOptions ] );  
cameraOption
```

```
var cameraOption = {};  
cameraOption = {  
    quality: 50,  
    destinationType : Camera.DestinationType.FILE_URI,  
    sourceType : Camera.PictureSourceType.CAMERA,  
    targetWidth: 200,  
    targetHeight: 200  
};
```

| Option | Description | Remark |
|--------------------|---|------------------------------------|
| quality | Defines quality (resolution) of image in percentage terms | |
| destinationType | Defines type of the destination value | navigator.camera.DestinationType |
| sourceType | Configures type of source for photo library and picture shot | navigator.camera.PictureSourceType |
| allowEdit | Defines editability of the pre-selected image | |
| encodingType | Defines encoding type | navigator.camera.EncodingType |
| targetWidth | Configures target width (pixel) of image Rate fixed | |
| targetHeight | Configures target height (pixel) of image Rate fixed | |
| mediaType | Configures type of media when pictureSourceType is configured either for PHOTO or SAVEDPHOTOALBUM | navigator.camera.MediaType |
| correctOrientation | Orientation of image for the images being loaded | |
| saveToPhotoAlbum | Saving image for the storage in the device | |
| | FileTransfer [upload] | |

- File transfer object that enables file upload to server.

```
var options = new FileUploadOptions();  
options.fileKey="file";  
options.fileName=fileURI.substr(fileURI.lastIndexOf('/')+1);  
options.mimeType="text/plain";
```

```

var params = new Object();
params.value1 = "test";
params.value2 = "param";

options.params = params;

var ft = new FileTransfer();
ft.upload(fileURI, "http://some.server.com/upload.php", transferSuccess, transferFail, options);
    FileUploadOptions

```

- Upload options object that defines transfer parameters for file uploads

| Option | Description | Remark |
|---------------|---|--------------------------|
| fileKey | Name of the file to be uploaded | Default is "file." |
| fileName | Name of the file to be saved on server | Default is "image.jpg." |
| mimeType | Sets mimeType when uploading data. | Default is "image/jpeg." |
| params | Additional parameters to be sent to server. | |
| chunkedMode | Whether or not to use large streaming. | Default is "true." |

Server Application

Source

| Type | Target Source | Remark |
|-------------|---|---|
| Controller | egovframework.hyb.ios.cmr.web.EgovCameraiOSAPIController.java | Classes for image information administration. |
| Service | egovframework.hyb.ios.cmr.service.EgovCameraiOSAPIService.java | Service interface for image information administration. |
| VO | egovframework.hyb.ios.cmr.service.CameraiOSAPIDefaultVO.java | VO Class for image administration. |
| VO | egovframework.hyb.ios.cmr.service.CameraiOSAPIFileVO.java | VO Class for image file administration |
| VO | egovframework.hyb.ios.cmr.service.CameraiOSAPIVO.java | VO Class for image administration. |
| VO | egovframework.hyb.ios.cmr.service.CameraiOSAPIXmlVO.java | VO Class for image administration. |
| DAO | egovframework.hyb.ios.cmr.service.impl.CameraiOSAPIDAO.java | Data processing Class for image administration. |
| DAO | egovframework.hyb.ios.cmr.service.impl.EgovCameraiOSMngUtil.java | Classes for image file administration |
| DAO | egovframework.hyb.ios.cmr.service.impl.EgovCameraiOSAPIServiceImpl.java | Class for processing services requested. |

Query X resources/egovframework/sqlmap/com/cop/adb/EgovNcrd_SQ Query file for Contacts administration
ML L.xml

ID Generation

- In order to use ID Generation Service, FILE (FILE information ID) entry must be added to COMTECOPSEQ, a sequence saving table.

Related Tables

Title

| Title | Table | Remark |
|--------------|--------------|---------------|
|--------------|--------------|---------------|

Camera CAMERA Manage image information

File details FILE_DETAIL_INFO Manage file's detailed information

Tables Breakdown

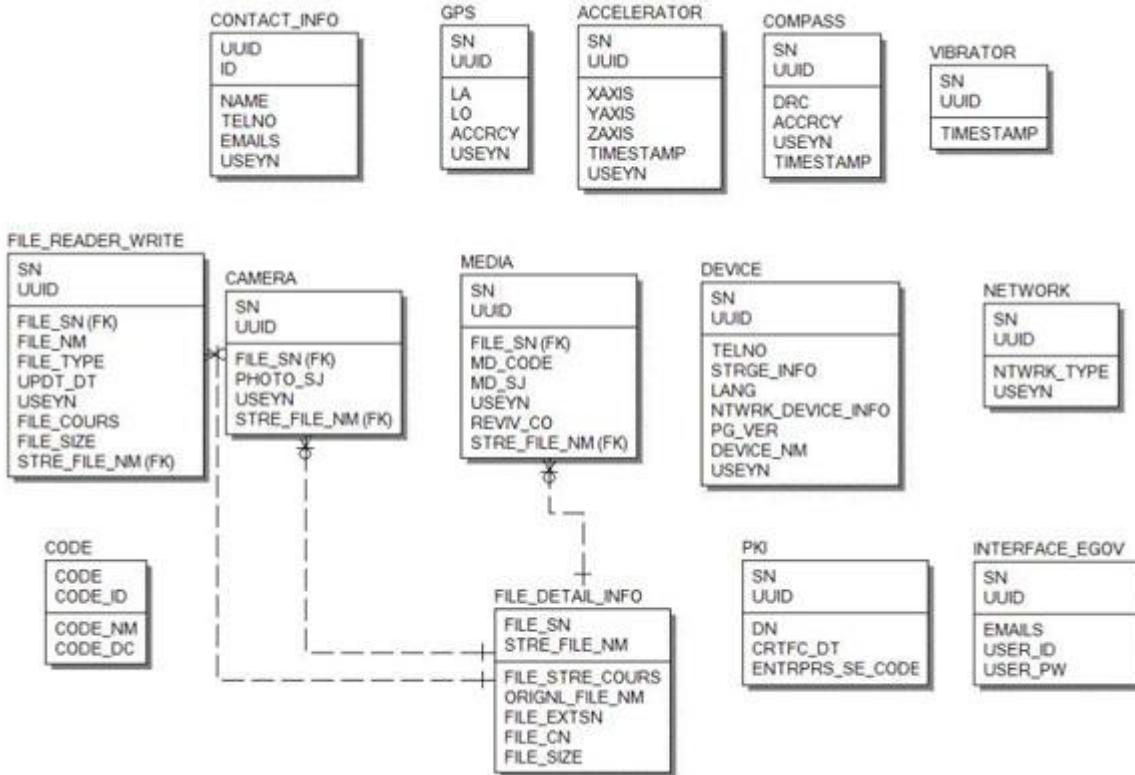
Camera

| No. | Column | Title of Column | Type | Length | Null | KEY |
|------------|---------------|------------------------|-------------|---------------|-------------|------------|
| 1 | SN | Serial No. | NUMERIC | 6 | NotNull | pk |
| 2 | UUID | UUID | VARCHAR | 50 | NotNull | pk |
| 3 | PHOTO_SJ | Title of photo | VARCHAR | 255 | Null | |
| 4 | FILE_SN | File Serial Number | NUMERIC | 20 | NotNull | Fk |
| 5 | USEYN | Activation | CHAR | 1 | Null | pk |

File details

| No. | Column | Title of Column | Type | Length | Null | KEY |
|------------|-----------------|------------------------|-------------|---------------|-------------|------------|
| 1 | FILE_SN | File Serial Number | NUMERIC | 20 | NotNull | pk |
| 2 | FILE_STRE_COURS | File directory | VARCHAR | 2000 | Null | |
| 3 | STRE_FILE_NM | Stored file name | VARCHAR | 255 | Null | pk |
| 4 | ORIGNL_FILE_NM | Original file name | VARCHAR | 255 | NotNull | |
| 5 | FILE_EXTSN | File extension | VARCHAR | 20 | Null | |
| 6 | FILE_CN | File contents | BLOB | | Null | |
| 7 | FILE_SIZE | File size | NUMERIC | 8 | Null | |

ERD



Configuration

Camera Device properties required for use of Camera-related functions of Camera Device API Guidance Program are as follows:

Device Application

config.xml

ExternalHosts

```
<accessororigin="ExternalHosts"/>
Plugin
```

```
<featurename="Camera">
<paramname="ios-package" value="CDVCamera"/>
</feature>
<featurename="FileTransfer">
<paramname="ios-package" value="CDVFileTransfer"/>
</feature>
```

Server Application

context-properties.xml

```
<entrykey="serverContext" value="Server Directory "/>
```

```

<entrykey="fileStorePath" value="File_Save_Path"/>
    resource/egovframework/sqlmap/sql-map-config_[DB NAME].xml

<sqlMapresource="egovframework/sqlmap/hyb/ios/cmr/EgovCameraiOSAPIGuide_SQL_[DB
NAME].xml"/>

```

Related Features

Camera Device API Guide Program is comprised of a function to send necessary information to server and inquire them, using photos taken with device's built-in camera and images saved in device's memory.

Send photographs taken with built-in camera to server

Business Logic

1. Check the network. If the network is not Wi-Fi, function based on user approval.
2. Image title must be minimum two characters and maximum 20. (Validation Rule)
3. If the titles are the same when transferring to server, determine whether or not to overwrite based on user approval.

Related Codes

Calls photo capture API.

```

function fn_egov_capture_photo(sel)
{
    var cameraOption = {};
    cameraOption = {
        quality: 50,
        destinationType : Camera.DestinationType.FILE_URI,
        sourceType : Camera.PictureSourceType.CAMERA,
        targetWidth: 200,
        targetHeight: 200
    };
    navigator.camera.getPicture(fn_egov_upload_photo,null,cameraOption);
};

Loads captured image

```

```

function fn_egov_upload_photo(data)
{
    image = data;
    if(myScroll != null)
    {
        myScroll.destroy();
    }
    fn_egov_wait_iscroll('wrapper_image');
    toast("uploadPhoto success!");
};

Request for image overlap check

```

```

var params = {
    photoSj : $("#photoSj").val(),

```

```

        uuid : device.uuid
    };

$.mobile.showPageLoadingMsg('a');
// depending on device performance, delay using setTimeout to ensure next code is executed after
ProgressDialog Show is completely loaded.
setTimeout(function()
{
    fn_egov_sendto_server("/cmr/cameraPhotoAlbumCheckiOS.do",params);
},
500);
Image overlap check result

var cameraiOSAPIVO = result["cameraiOSAPIVO"];
var currentImageSn = cameraiOSAPIVO["sn"];

if(currentImageSn != null && currentImageSn != "")
{
    jConfirm("File with the same name already exists..\\nEdit image?", "Alert", "b",
        function(result)
    {
        if(result)
        {
            fn_egov_update_Photograph(currentImageSn);
        }
    });
}
else
{
    jConfirm("Save?", "Alert", "b",
        function(result)
    {
        if(result)
        {
            fn_egov_insert_Photograph();
        }
    });
}
}

Send image to server

function fn_egov_insert_Photograph()
{
    $.mobile.showPageLoadingMsg();

    setTimeout(function()
    {
        var options = new FileUploadOptions();
        options.fileKey = "file";
        options.fileName = new Date().format("YYYYMMDDhhmmss") + ".jpg";
        options.mimeType = "image/jpeg";

        var params = { };

```

```

        options.params = params;
        var ft = new FileTransfer();
        var serverPath = downloadContext +
"/cmr/photoAlbumImageUploadiOS.do?uuid="+ encodeURI(device.uuid)+"&photoSj="+
encodeURIComponent("Image Title ");
        ft.upload(image, serverPath, fn_insertSuccess, fn_error, options);
    },
    500);
}

function fn_egov_update_PhotoGraph(currentImageSn) {
    $.mobile.showPageLoadingMsg();

    setTimeout(function()
    {
        var options = new FileUploadOptions();
        options.fileKey = "file";
        options.fileName = new Date().format("YYYYMMDDhhmmss") + ".jpg";
        options.mimeType = "image/jpeg";

        var ft = new FileTransfer();

        var params = { };

        options.params = params;
        var serverPath = downloadContext +
"/cmr/photoAlbumImageUpdateiOS.do?sn="+currentImageSn;
        ft.upload(image, serverPath, fn_insertSuccess, fn_error, options);
    },
    500);
}

```

Related Screen and Implementation Manual

| Function | URL | Controller | method | Display (HTML) |
|-----------------------|-------------------------------------|----------------------------|------------------|------------------------------|
| Image overlap check | ch /cmr/cameraPhotoAlbumCheckiOS.do | EgovCameraiOSAPIController | selectPhotoAlbum | CameraAPI.html#addPhotoAlbum |
| Image upload (insert) | /cmr/photoAlbumImageUploadiOS.do | EgovCameraiOSAPIController | fileUpload | CameraAPI.html#addPhotoAlbum |
| Image upload (update) | /cmr/photoAlbumImageUpdateiOS.do | EgovCameraiOSAPIController | fileUpdate | CameraAPI.html#addPhotoAlbum |





Title: minimum 2 characters, maximum 20 characters rule is in effect.

Take photograph: calls camera device.

Save: conducts image overlap check on server and uploads.

Send images from the gallery to server

Business Logic

1. Check the network. If the network is not Wi-Fi, function based on user approval.
2. Image title must be minimum two characters and maximum 20. (Validation Rule)
3. If the titles are the same when transferring to server, determine whether or not to overwrite based on user approval.

Related Codes

Calls gallery API.

```
function fn_egov_capture_photo(sel)
{
    var cameraOption = {};
    cameraOption = {
        quality: 50,
        destinationType : Camera.DestinationType.FILE_URI,
        sourceType : Camera.PictureSourceType.PHOTOLIBRARY,
        targetWidth: 200,
        targetHeight: 200
    };

    navigator.camera.getPicture(fn_egov_upload_photo,null,cameraOption);
};

    Loads selected image from gallery

function fn_egov_upload_photo(data)
{
    image = data;
    if(myScroll != null)
    {
        myScroll.destroy();
    }
    fn_egov_wait_iscroll('wrapper_image');
    toast("uploadPhoto success!");
};

    Request for image overlap check

var params = {
    photoSj : $("#photoSj").val(),
    uuid : device.uuid
};

$.mobile.showPageLoadingMsg('a');
// depending on device performance, delay using setTimeout to ensure next code is executed after
ProgressDialog Show is completely loaded.
setTimeout(function()
{
    fn_egov_sendto_server("/cmr/cameraPhotoAlbumCheckiOS.do",params);
},
500);
```

```

Image overlap check result

var cameraiOSAPIVO = result["cameraiOSAPIVO"];
var currentImageSn = cameraiOSAPIVO["sn"];

if(currentImageSn != null && currentImageSn != "")
{
    jConfirm("File with the same name already exists..\nEdit image?", "Alert", "b",
        function(result)
    {
        if(result)
        {
            fn_egov_update_PhotoGraph(currentImageSn);
        }
    });
}
else
{
    jConfirm("Save?", "Alert", "b",
        function(result)
    {
        if(result)
        {
            fn_egov_insert_PhotoGraph();
        }
    });
}
}

Send image to server

function fn_egov_insert_PhotoGraph()
{
    $.mobile.showPageLoadingMsg();

    setTimeout(function()
    {
        var options = new FileUploadOptions();
        options.fileKey = "file";
        options.fileName = new Date().format("YYYYMMDDhhmmss") + ".jpg";
        options.mimeType = "image/jpeg";

        var params = { };

        options.params = params;
        var ft = new FileTransfer();
        var serverPath = downloadContext +
"/cmr/photoAlbumImageUploadiOS.do?uuid="+ encodeURI(device.uuid)+"&photoSj="+
encodeURIComponent("Image Title ");
        ft.upload(image, serverPath, fn_insertSuccess, fn_error, options);
    },
    500);
}

function fn_egov_update_PhotoGraph(currentImageSn) {

```

```

$.mobile.showPageLoadingMsg();

setTimeout(function()
{
    var options = new FileUploadOptions();
    options.fileKey = "file";
    options.fileName = new Date().format("YYYYMMDDhhmmss") + ".jpg";
    options.mimeType = "image/jpeg";

    var ft = new FileTransfer();

    var params = { };

    options.params = params;
    var serverPath = downloadContext +
"/cmr/photoAlbumImageUpdateiOS.do?sn="+currentImageSn;
        ft.upload(image, serverPath, fn_insertSuccess, fn_error, options);
    },
    500);
}

```

Related Screen and Implementation Manual

| Function | URL | Controller | method | Display (HTML) |
|-----------------------|----------------------------------|----------------------------|------------------|------------------------------|
| Image overlap check | /cmr/cameraPhotoAlbumCheckiOS.do | EgovCameraiOSAPIController | selectPhotoAlbum | CameraAPI.html#addPhotoAlbum |
| Image upload (insert) | /cmr/photoAlbumImageUploadiOS.do | EgovCameraiOSAPIController | fileUpload | CameraAPI.html#addPhotoAlbum |
| Image Upload (update) | /cmr/photoAlbumImageUpdateiOS.do | EgovCameraiOSAPIController | fileUpdate | CameraAPI.html#addPhotoAlbum |





Title: minimum 2 characters, maximum 20 characters rule is in effect.

Gallery: calls Device's gallery image information.

Save: conducts image overlap check on server and uploads.

Inquire server's image list

Business Logic

1. Check the network. If the network is not Wi-Fi, function based on user approval.

Related Codes

Request server's image list

```
function fn_egov_show_ImgList()
{
    if(fn_egov_network_check(false))
    {
```

```

var params = null;
if(ImageArray === null)
{
    params = {pageIndex:1};
}
else
{
    if(ImageArray.length % 10 === 0)
    {
        params = {pageIndex:1+ImageArray.length/10};
    }
    else
    {
        jAlert('Last Page.', 'Alert', 'c');
        return;
    }
}

$.mobile.showPageLoadingMsg('a');
setTimeout(function()
{
    fn_egov_sendto_server("/cmr/cameraPhotoAlbumListiOS.do",params);
},
500);
}

Inquire details about the selected image

function fn_detailPhotoAlbum(VOsn)
{
    if(fn_egov_network_check(false))
    {
        currentImageSn = VOsn;
        var params = {
            sn : VOsn
        };

        $.mobile.showPageLoadingMsg('a');
        setTimeout(function()
        {
            fn_egov_sendto_server("/cmr/cameraPhotoAlbumDetailiOS.do",params);
        },
        500);
    }
}

Delete selected image

function fn_deletePhotoAlbum()
{
    if(fn_egov_network_check(false))
    {
        jConfirm("Delete?", "Alert", "b",
            function(result)
            {

```

```

        if(result)
        {
            var params = {
                sn : currentImageSn
            };

            $.mobile.showPageLoadingMsg('a');
            setTimeout(function()
            {

fn_egov_sendto_server("/cmr/deleteCameraPhotoAlbumiOS.do",params);
            },
            500);
        }
    });
}

Request server's image list inquiry

```

Related Screen and Implementation Manual

| Function | URL | Controller | method | Display (HTML) |
|----------------------------------|-----------------------------------|-----------------------------|----------------------------|---------------------------------|
| Request server's image list | /cmr/cameraPhotoAlbumListiOS.do | EgovCameraiOSAPI Controller | selectCameraPhotoAlbumList | CameraAPI.html#listPhotoAlbum |
| Details about the selected image | /cmr/cameraPhotoAlbumDetailiOS.do | EgovCameraiOSAPI Controller | selectPhotoAlbumDetail | CameraAPI.html#detailPhotoAlbum |
| Delete selected image | /cmr/deleteCameraPhotoAlbumiOS.do | EgovCameraiOSAPI Controller | deleteCameraPhotoAlbum | CameraAPI.html#detailPhotoAlbum |





List: requests details of the selected list.

View more: loads 10 more image lists on server.

List: calls server's image list page.

Delete: deletes selected image.

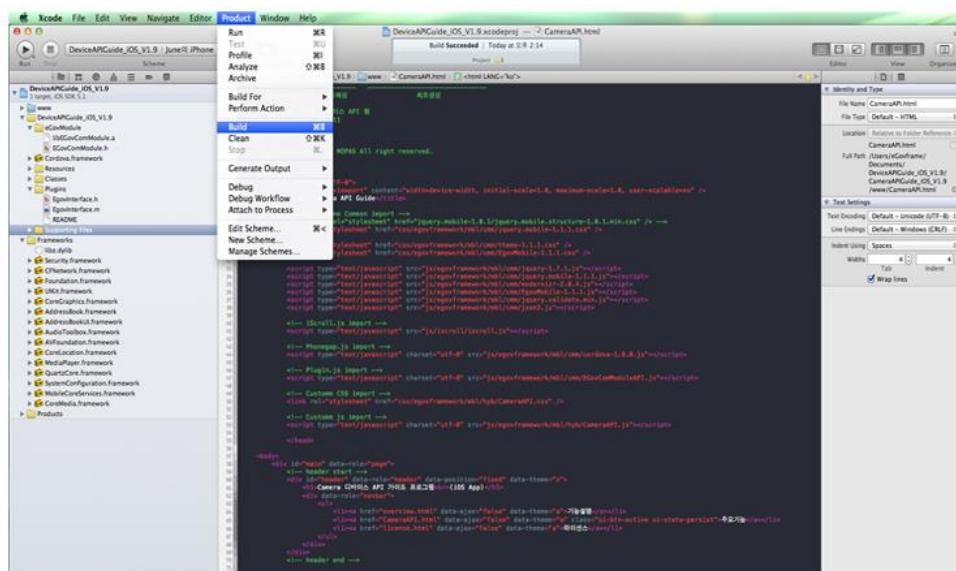
Compiling, debugging, distributing

Compiling

Device Application

1. [CameraAPI installation link](#)

2. Click on "build" after checking CameraAPI project's installation status.



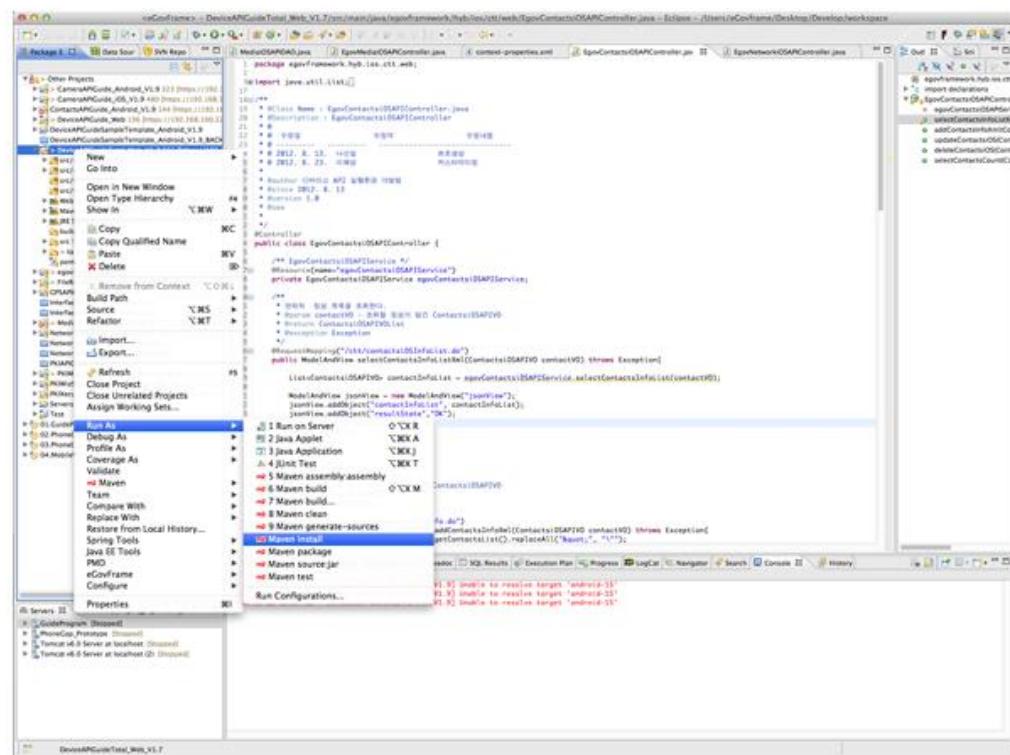
- The following screen will appear upon successful build.



Server Application

- [Web Server installation link](#)

2. Right-click on the project > Run as > Maven install to build.



3. Build successful (check console information)

```

[terminated] > /System/Library/Java/JavaVirtualMachines/1.6.0.jdk/Contents/Home/bin/java [2012. 9. 13. 오 4:18:33]
[INFO] --- maven-compiler-plugin:2.3.2:testCompile (default-testCompile) @ DeviceAPIGuide_Web ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.7.1:test (default-test) @ DeviceAPIGuide_Web ---
[INFO] Surefire report directory: /Users/eGovframe/Desktop/Develop/workspace/DeviceAPIGuideTotal_Web_V1.7/target/surefire-reports

TESTS
-----
There are no tests to run.

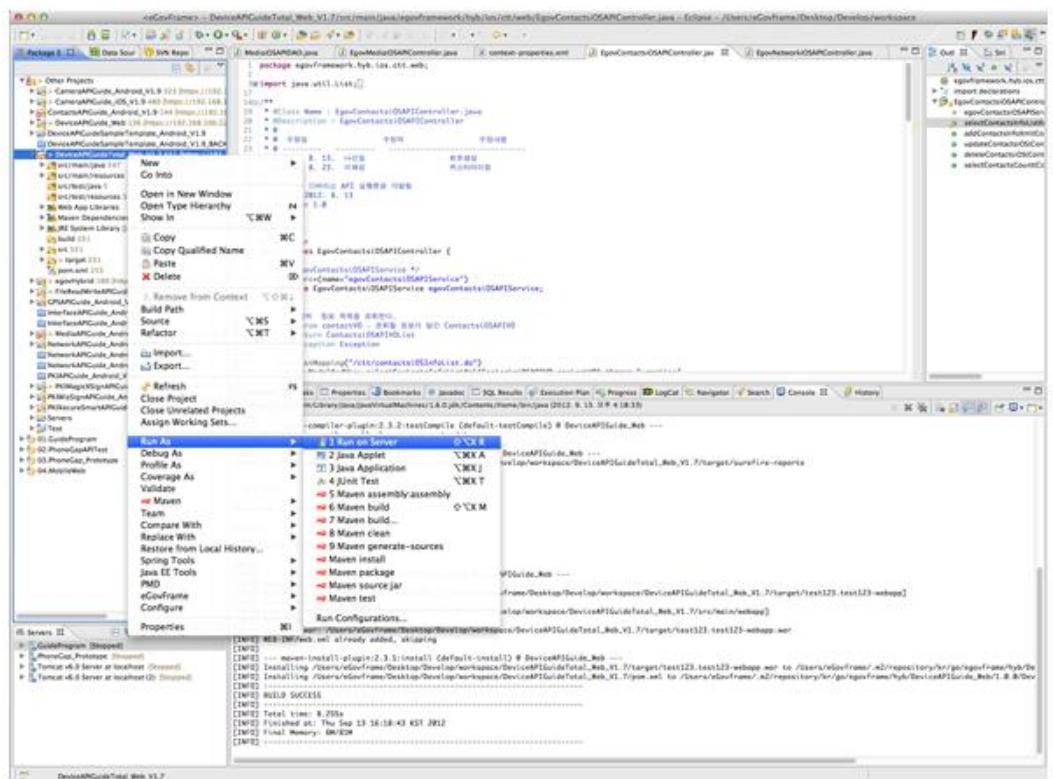
Results :

Tests run: 0, Failures: 0, Errors: 0, Skipped: 0

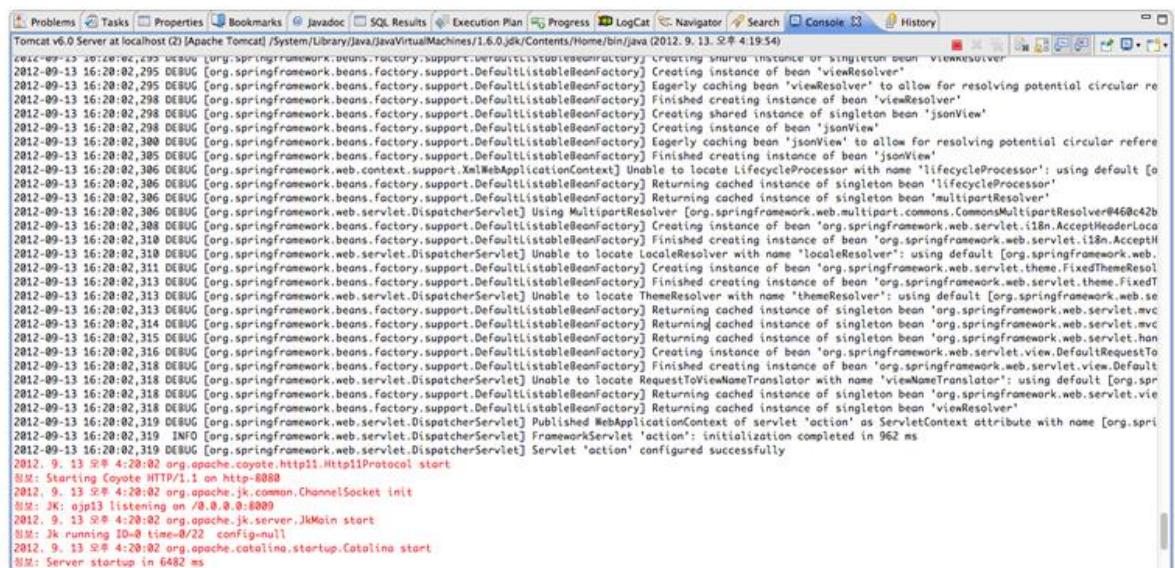
[INFO] --- maven-war-plugin:2.1.1:war (default-war) @ DeviceAPIGuide_Web ---
[INFO] Packaging webapp
[INFO] Assembling webapp [DeviceAPIGuide_Web] in [/Users/eGovframe/Desktop/Develop/workspace/DeviceAPIGuideTotal_Web_V1.7/target/test123.test123-webapp]
[INFO] Processing war project
[INFO] Copying webapp resources [/Users/eGovframe/Desktop/Develop/workspace/DeviceAPIGuideTotal_Web_V1.7/src/main/webapp]
[INFO] Webapp assembled in [1438 msec]
[INFO] Building war: /Users/eGovframe/Desktop/Develop/workspace/DeviceAPIGuideTotal_Web_V1.7/target/test123.test123-test123-webapp.war
[INFO] WEB-INF/web.xml already added, skipping
[INFO] --- maven-install-plugin:2.3.1:install (default-install) @ DeviceAPIGuide_Web ---
[INFO] Installing /Users/eGovframe/Desktop/Develop/workspace/DeviceAPIGuideTotal_Web_V1.7/target/test123.test123-test123-webapp.war to /Users/eGovframe/.m2/repository/kr/go/eGovframe/hyb/DeviceAPIGuide_Web/1.0.0/DeviceAPIGuide_Web-1.0.0.war
[INFO] 
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 8.255s
[INFO] Finished at: Thu Sep 13 16:18:43 KST 2012
[INFO] Final Memory: 6M/81M
[INFO] -----

```

4. Right-click on project>Run as>Run on Server to execute



5. Check to see if project is successfully executed



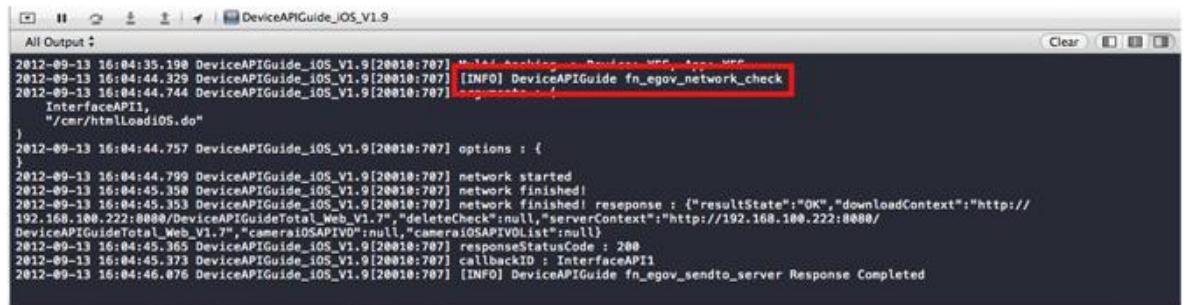
Debugging

Use console.log in order to check the details on any errors on the device application, and to conduct debugging. Debug codes in console.log are available in JavaScript syntaxes that you can use in both Eclipse and Xcode.

- Example of actual console log

```
function fn_egov_network_check(doCheck)
{
    console.log('DeviceAPIGuide fn_egov_network_check');
    var networkState = navigator.network.connection.type;
    ...
}
```

- xCode console window



- Organizer log window

```

Sep 13 16:04:31 unknown SpringBoard[69] <Notice>: MultitouchHDI: detection mode: 255->0 (deferring until booted)
Sep 13 16:04:31 unknown calaccesssd[20006] <Notice>: MS:Notice: Installing: (null) [calaccesssd] (690.10)
Sep 13 16:04:31 unknown kernel[8] <debug>: lockbot[19993] Built-in profile: debugserver (sandbox)
Sep 13 16:04:31 unknown kernel[8] <debug>: ALSi [AppleT700] setPropertiesGated: requested ReportInterval=0 turn OFF sensor
Sep 13 16:04:32 unknown kernel[8] <debug>: set_CRC_notification_state 0
Sep 13 16:04:32 unknown SpringBoard[69] <Notice>: MultitouchHDI: device booted
Sep 13 16:04:32 unknown SpringBoard[69] <Notice>: MultitouchHDI: detection mode: 8->0
Sep 13 16:04:32 unknown MobileStorageMounter[20008] <Notice>: MS:Notice: Installing: com.apple.MobileStorageMounter [MobileStorageMounter] (690.10)
Sep 13 16:04:32 unknown com.apple.launchd[1] <Warning>: (UIKitApplication:kr.go.egovframe.hyb.CameraAPIGuide_iOS[0x872a]) Spawed and waiting for the debugger to attach before continuing...
Sep 13 16:04:32 unknown com.apple.debugserver-64[20005] <Warning>: Got a connection, waiting for debugger instructions for task "(null)".
>
Sep 13 16:04:32 unknown kernel[8] <debug>: launchd[20008] Built-in profile: container (sandbox)
Sep 13 16:04:32 unknown kernel[8] <debug>: launchd[20008] Container: /private/var/mobile/Applications/C789665C-79A6-4C12-AB0B-5A44EBC990FE [69] (sandbox)
>
Sep 13 16:04:34 unknown DeviceAPIGuide_iOS_V1_9[20010] <Notice>: MS:Notice: Installing: kr.go.egovframe.hyb.CameraAPIGuide_iOS [DeviceAPIGuide_iOS_V1_9] (690.10)
Sep 13 16:04:35 unknown DeviceAPIGuide_iOS_V1_9[20010] <Warning>: Multi-tasking --> Device: YES, App: YES
>
Sep 13 16:04:42 unknown UserEventAgent[19] <Warning>: TRACE: <#0Connection: 0x1d766b> connection interrupted
Sep 13 16:04:42 unknown UserEventAgent[19] <Warning>: DEBUG: <#0Connection: 0x1d766b> disconnected
Sep 13 16:04:42 unknown UserEventAgent[19] <Warning>: TRACE: Cancelling <#0Connection: 0x1d766b>
Sep 13 16:04:42 unknown UserEventAgent[19] <Warning>: TRACE: <#0Connection: 0x1d766b> connection invalid
>
Sep 13 16:04:44 unknown DeviceAPIGuide_iOS_V1_9[20010] <Warning>: [INFO] DeviceAPIGuide fn_egov_network_check
Sep 13 16:04:44 unknown DeviceAPIGuide_iOS_V1_9[20010] <Warning>: arguments : {
    InterfaceAPI1,
    "/com/rhitalLoadIOS.do"
}
>
Sep 13 16:04:44 unknown DeviceAPIGuide_iOS_V1_9[20010] <Warning>: options : {
}
>
Sep 13 16:04:45 unknown DeviceAPIGuide_iOS_V1_9[20010] <Warning>: network started
Sep 13 16:04:45 unknown DeviceAPIGuide_iOS_V1_9[20010] <Warning>: network finished!
Sep 13 16:04:45 unknown DeviceAPIGuide_iOS_V1_9[20010] <Warning>: network finished! reseponse : {"resultState":"OK","downloadContext":"http://192.168.100.222:8088/DeviceAPIGuideTotal_Web_V1.7?","deleteCheck":null,"serverContext":"http://192.168.100.222:8088/DeviceAPIGuideTotal_Web_V1.7?","cameraOSAPIVO":null,"cameraOSAPIVOList":null}
Sep 13 16:04:45 unknown DeviceAPIGuide_iOS_V1_9[20010] <Warning>: responseStatusCode : 200
Sep 13 16:04:45 unknown DeviceAPIGuide_iOS_V1_9[20010] <Warning>: callbackID : InterfaceAPI1
>
Sep 13 16:04:46 unknown DeviceAPIGuide_iOS_V1_9[20010] <Warning>: [INFO] DeviceAPIGuide fn_egov_sendto_server Response Completed
>
Sep 13 16:05:51 unknown securityd[20011] <Notice>: MS:Notice: Installing: (null) [securityd] (690.10)
>
Sep 13 16:05:52 unknown crash_mover[20013] <Notice>: MS:Notice: Installing: (null) [crash_mover] (690.10)
>

```

| Log message | Value | Remark |
|-------------|-------|--------|
|-------------|-------|--------|

| | | |
|---|--|--|
| DeviceAPIGuide fn_egov_network_check | | Checks network condition |
| DeviceAPIGuide fn_insertSuccess | | Image transfer to server successful |
| DeviceAPIGuide fn_error | | Image transfer to server failed |
| DeviceAPIGuide fn_egov_sendto_server Response Completed | | Request to server successfully processed |
| DeviceAPIGuide fn_egov_sendto_server Response Failed | | Internal server process error |
| DeviceAPIGuide fn_egov_sendto_server Request Failed | | Communications error |

Distribution

Download Camera Device API Guide: [Click](#)

References

- UX/UI library : jQuery Mobile[Click](#)
- Phonegap 4.3.0 : [Click](#)

