Vibrator Device API Guide Program

Outline

VibratorAPI 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 notification related functions of mobile smart devices through JavaScript-based Vibrator DeviceAPI.

Also, it is comprised of a feature to send and inquire notification information within the Device, in conjunction with eGovFramwork based web server application.

Feature

This Guide Program provides **notify with sound**, **notify with vibration**, **view notification list** features.

Using Notification API, it displays notificatio information at the time of user's designation.

Assumptions

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		
Restriction			
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(loaded, 200); },
false);

• Problem: iScroll5 content height calculation error.

• Solution: use setTimeout() to ensure iscroll is generated after css application to contents is complete.

Using cross domain

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

License

N/A

Description

Vibrator Device API Guide Program is comprised of features that a) sets and displays notification information and b) sends and inquires set notification information to web application. (refer to related functions section)

Class Diagram



Device Application

Source

Туре	Title	Remark
CSS	www/css/egovframwork/mbl/hyb/VibratorAPI.css	VibratorAPI Guide Program main Cascading Style Sheets
IMAGE	www/images/egovframwork/mbl/hyb/	VibratorAPI Guide Program main Image folder
JS	www/js/egovframwork/mbl/hyb/VibratorAPI.js	VibratorAPI Guide Program main JavaScript
HTML	www/VibratorAPI.html	VibratorAPI main page
HTML	www/license.html	VibratorAPI license page
HTML	www/overview.html	VibratorAPI feature description page

APIs Used

notification.beep

- Notifies beep in the device
- times: Beep counts repeted

navigator.notification.beep(times);

notification.vibrate

- Vibrates the device for the pre-determined period of time
- Lasting of vibration in milliseconds

navigator.notification.vibrate(milliseconds);

Server Application

Source

Туре	Title	Remark
Controller	egovframework.hyb.ios.vbr.web.EgovVibratoriOSAPIController.ja va	VibratorAPI Guide Program Controller C lass
Service	egovframework.hyb.ios.vbr.service.EgovVibratoriOSAPIService.ja va	VibratorAPI Guide Program Service Clas s
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Rel	ated Tables	
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Title	Table Remark	

VIBRATOR Manages notification information

Tables Breakdown

Vibrator

No.	Column	Title of Column	Туре	Length	Null	KEY
1	SN	Serial No.	NUMERIC	6	NotNull	pk
2	UUID	UUID	VARCHAR	50	NotNull	pk
3	TIMESTAMP	Time value	VARCHAR	20	Null	





Configuration Settings

Necessary sections and settings for using alarm related features of mobile device, provided by Vibrator Device API Guide Program, are as follows.

Device Application

config.xml

Plugins

<featurename="Notification">

```
<accessorigin="ExternalHosts"/>
Server Aplication
```

resource/egovframework/sqlmap/sql-map-config_[DB NAME].xml

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

Related features

Notify with sound

Business Logic

Notifies the user using beeps at the set notification time.

```
Related Code
```

```
function fn_egov_save_notificationConfig() {
```

```
•••
         var setTime = $("#txtNotification").val();
         if(fn_egov_network_check(true)) {
          setTimeout ( "fn_egov_set_alram()", setTime * 1000);
          jAlert("Alarm is set for " + setTime + " seconds.", "Alert", "b");
          }
         •••
}
function fn_egov_set_alram() {
    console.log("DeviceAPIGuide fn_egov_set_alram Success");
    if($("#swchBeep").val() === "on") {
         navigator.notification.beep(3);
     }
   ...
    fn_egov_insert_data();
    jAlert("Alarm", "Alert", "b");
}
        Related Screen and Implementation Manual
                                                                              QueryID
         Action
                                  URL
                                                Controller method
```

Send notification information /vbr/addVibratoriOSInfo.do insertVibrator

"vibratoriOSAPIDAO.insertVibrator"



Set "notify with sound" button to "On," set the notification time, and click "OK." Note, however, that you need to validate the input data. Error messages are out in the event of insufficient condition.

Feature description: moves to **feature description** page. License: moves to **License** page. Notify with sound : set to "On" for "notify with sound" feature. Notification list: move to notification list inquiry screen. OK: set notification based on current settings. Notify with vibration

Business Logic

Notifies the user using vibrations at the set notification time.

Related Code

```
function fn_egov_save_notificationConfig() {
```

```
...
         var setTime = $("#txtNotification").val();
         if(fn_egov_network_check(true)) {
          setTimeout ( "fn_egov_set_alram()", setTime * 1000);
          jAlert("Alarm is set for "+ setTime + " second.", "Alert", "b");
          }
         •••
}
function fn_egov_set_alram() {
    console.log("DeviceAPIGuide fn_egov_set_alram Success");
   ....
    if($("#swchVibration").val() === "on") {
         navigator.notification.vibrate(3000);
     }
   •••
    fn_egov_insert_data();
    jAlert("Alarm", "Alert", "b");
}
         Related Screen and Implementation Manual
                                   URL
         Action
                                                 Controller method
                                                                              QueryID
```

Send notification information /vbr/addVibratoriOSInfo.do insertVibrator "vibratoriOSAPIDAO.insertVibrator"

····태 3G Vibrator 디비	9:41 AM 이스 API 가이 (IOS App)	드 프로그램
기능설명	주요기능	라이선스
아버지에 AP Gui notification API를 뒤 설정한 시간이 5 여 사용자에게 알림 니다. 소리로 알림 : On	ite 프로그 옵션 역 호출하여, 알림 티면 Vibrator, B J을 전달하는 가여	시간을 설정한 eep 를 사용하 I드 프로그램 입
진동으로 알림 : 🧰	Dn 🔵	
타이머 설정 12	초 후 알림	4
() 알림 목록		설정완료

Set "notify with vibration" button to "On," set the notification time, and click "OK." Note, however, that you need to validate the input data. Error messages are out in the event of insufficient condition.

Feature description: moves to **feature description** page. License: moves to **License** page. Notify with vibration : set to "On" for "notify with vibration" feature. Notification list: move to notification list inquiry screen. OK: set notification based on current settings.

View notification list

Business Logic

Displays notification setting information saved in server.

Related Code

```
function fn_egov_select_data() {
     var url = "/vbr/VibratoriOSInfoList.do";
          var acceptType = "xml";
     $.mobile.showPageLoadingMsg();
          egovHyb.post(url, acceptType, {}, function(xmldata) {
                    console.log("DeviceAPIGuide fn_egov_select_data request Completed");
                    fn_egov_go_detailPage(xmldata);
          });
}
         Related Screen and Implementation Manual
                                    URL
          Action
                                                  Controller method
                                                                                 QueryID
Notification information inquir /vbr/VibratoriOSInfoList.d selectVibratorInfoLis "vibratoriOSAPIDAO.selectVibratorLis
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у
                           0
```



Displays notification information list saved in server.

Feature description: moves to **feature description** page. License: moves to **License** page.

Compiling, debugging, distributing

Compiling

Device Application

1. VibratorAPI installation link

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



- and 3G 9:41 AM Vibrator C|8|0|... (IOS App) 기능설명 라이선스 Vibrator API Guide 프로그램은 디바이스 내 notification API를 호출하여, 알림 시간을 설 정한 뒤 설정한 시간이 되면 Vibrator, Beep 를 사용하여 사용자에게 알림을 전달하는 가이 드 프로그램 입니다. Off 소리로 알림 : Off 진동으로 알림 : 타이머 설정 • 0
- The following screen will appear upon successful build.



1. <u>Web Server installation link</u>

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

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3. Build successful (check console information)

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<terminated> /System/Library/Java/JavaVirtualMachines/1.6.0.jdk/Contents/Home/bin/java (2012. 9. 13. 兄年 4:18:33)</terminated>	- 米後 () () () () () () () () () () () () ()
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TESTS	
There are no tests to run.	
Results :	
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4. Right-click on project>Run as>Run on Server to execute.

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5. Check to see if project is successfully executed.

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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

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	Devices Repositories Projects Archives Documentation	
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Screenshots	0) err = (os/kern) involid address (bi00000001)	
▼ ■ 이환철의 iPhone 5.1.1 (98206)	360 33 16:07:99 unknown com.opple.debuggerver.04(20037) d/arningb: 6 [0005/0003]; error: ::moch_vm_read (task = 0:1600, addr = 0:27000000, size = 64, data => 0:000000000, data(0) err = (os/kern) involid address (0:00000001) Sen 13 (6:07:09 unknown com.opple.debuggerver.04/20017) d/arningb: 7 (6465/0003); error: ::moch_vm_read (task = 0:1600, addr = 0:27000000, size = 64, data => 0:000000000, data(Sen 13 (6:07:09 unknown com.opple.debuggerver.04/20017) d/arningb: 7 (6465/0003); error: ::moch_vm_read (task = 0:1600, addr = 0:27000000, size = 64, data => 0:000000000, data(Sen 13 (6:07:09 unknown com.opple.debuggerver.04/20017) d/arningb: 7 (6465/0003); error: ::moch_vm_read (task = 0:1600, addr = 0:27000000, size = 64, data => 0:000000000, data(Sen 13 (6:07:09 unknown com.opple.debuggerver.04/20017) d/arningb: 7 (6465/0003); error: ::moch_vm_read (task = 0:1600, addr = 0:27000000, size = 64, data => 0:00000000, data(Sen 13 (6:07:09 unknown com.opple.debuggerver.04/20017) d/arningb: 7 (6465/0003); error: ::moch_vm_read (task = 0:1600, addr = 0:27000000, size = 64, data => 0:000000000, data(Sen 13 (6:07:09 unknown com.opple.debuggerver.04/20017) d/arningb: 7 (6465/0003); error: ::moch_vm_read (task = 0:1600, addr = 0:27000000, size = 64, data => 0:000000000, data(Sen 13 (6:07:09 unknown com.opple.debuggerver.04/20017) d/arningb: 7 (6465/0003); error: ::moch_vm_read (task = 0:1600, addr = 0:2700000, size = 64, data => 0:00000000, data(sen 10 (sen 10	ont
Device Logs Screenshots	8) err = (os/kern) invalid address (0:00000000) Sep 13 16:07:49 unknown com.goole.debuggerver-64[20037] d/arnings: 8 [4445/3303]; error: ::aach.va_read (task = 0:1660, addr = 0:2fe00000, size = 64, data => 0:000000000, data	Ont =0
y ■ June ² iPad 5.1.1 (98206)	0) err = (os/kern) involid address (8:000000001) Sep 13 16:07:49 unknown com.apple.debugserver-64[20037] dWarnings: 9 [4e45/0303]: error: i:mach_vm_read (task = 8:1603, addr = 8:2fe000000, size = 64, data => 8:000000000, dataC	Dnt =o
Device Logs	0) err = (os/kern) involid oddress (8x88888881) 59 13 165919 winknow com.apple.debugerver-64[28837] diarnings: 18 [4e45/8883]: error: ::sach_vs_red (task = 8x1683, addr = 8x2fe88888, size = 64, data => 8x88888888, data >> 8) err = (os/kern) invalid address (8x8888881) 50 13 165919 winknow DeviceAFE0uide.105.V1,9[28883] debites: Installing: kr.op.esovframe.heb.ContactsAFE0uide.105 [DeviceAFEE0uide.105.V1,9] (698.18))Cnt
	Sep 13 16:87:50 urknown kernel[0] -debug-: launchu[20038] builtin profile: container (sandoxix) Sep 13 16:87:50 urknown kernel[0] -debug-: launchu[20038] Cantainer: /private/ur/mobile/Agplications/07F64C24-96E8-4E43-A96E-70ADC859E404 [69] (sandbox) Sep 13 16:87:50 urknown DeviceAPIGuids_105_V1.9[20038] -dearnings: Multi-tasking -> Device: YES, App: YES	
	> Sep 13 16:07:57 unknown DeviceAPIGuide_105_V1.9[20038] -diarmingo: [INF0] DeviceAPIGuide fn_egov_network_check >>	
	Sep 13 16:09:15 unknown securityd[20039] diotice>: H5:Notice: Installing: (null) [securityd] (690.10) >> Sep 13 16:09:16 unknown crash_mover[20041] diotice>: H5:Notice: Installing: (null) [crash_mover] (690.10) >>	
	الال	
	Clear Save Log A	5

Log message	Value	Remark
DeviceAPIGuide fn_egov_network_check	Checks network condition	
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 Vibrator Device API Guide: Click		

References

- UX/UI library : jQuery Mobile<u>Click</u>
- Phonegap 4.3.0 : <u>Click</u>