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.

Preconditions	
Category	Description
Local Device Environments	eGovFramework Runtime Environment 3.5, Android SDKAPI 22(version 5.0 Lollipop)
Server-side Developmental Environm ent	Runtime Environment for eGov Standard Framework 3.5
Works in sync with Mash up Open API	N/A
Test Device	Galaxy S2
Test Platform	Android 2.3
Libraries Added	N/A
Restriction	
Category	Description

Using cross d When using certain outside domains or its subdomains on PhoneGap, add such domains on <access omain origin="" /> at Res/xml/config.xml.

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
Activity	kr.go.egovframework.hyb.vibratorapi.VibratorAPIGuide_AndroidActivity	VibratorAPI Guide Program Activity Class
CSS	assets/www/css/egovframwork/mbl/hyb/VibratorAPI.css	VibratorAPI Guide Program main Cascading Sty le Sheets
IMAGE	assets/www/images/egovframwork/mbl/hyb/	VibratorAPI Guide Program main Image folder
JS	assets/www/js/egovframwork/mbl/hyb/VibratorAPI.js	VibratorAPI Guide Program main JavaScript
JS	assets/www/js/egovframwork/mbl/hyb/messages_ko.js	JavaScript for Validate Message Processing
RES	assets/www/res/	VibratorAPI Guide Program main Resource fold

er

XML AndroidManiFest.xml

HTML assets/www/VibratorAPI.html

HTML assets/www/Intro.html

HTML assets/www/license.html

HTML assets/www/overview.html

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		Rei	nark	
Controller	egovframework.hyb.add.vbr.web.EgovVibratorAndroidAPIControlle r.java	VibratorAPI Class	Guide	Program	Controller
Service	egovframework.hyb.add.vbr.service.EgovVibratorAndroidAPIServic e.java	VibratorAPI ass	Guide	Program	Service Cl
ServiceIm pl	egovframework.hyb.add.vbr.service.impl.EgovVibratorAndroidAPIS erviceImpl.java	VibratorAPI 1 Class	Guide	Program	ServiceImp
VO	egov framework. hyb. add. vbr. service. Vibrator Android APIDe fault VO. java	VibratorAPI	Guide	Program	VO Class
VO	egov framework. hyb. add. vbr. service. Vibrator Android APIVO. java	VibratorAPI	Guide	Program	VO Class
VO	egovframework.hyb.add.vbr.service.VibratorAndroidAPIXmlVO.jav a	VibratorAPI ed VO Clas	Guide s	Program	XML relat
DAO	egovframework.hyb.add.vbr.service.impl.VibratorAndroidAPIDAO.j ava	VibratorAPI	Guide	Program	Dao Class
QUERY XML	resources/egovframework/sqlmap/hyb/add/vbr/EgovVibratorAndroid APIGuide_XXX_mysql.xml	VibratorAPI ML	Guide	Program	QUERY X

1

Configuration XML for Android

VibratorAPI main page

VibratorAPI Intro page

VibratorAPI license page

VibratorAPI feature description page

Idgen XM resources/egovframework/spring/com/context-idgen.xml L

VibratorAPI Guide Program ID generat ion Idgen XML

Related Tables

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

Vibrator VIBRATOR Manages notification information

Table Definition

VIBRATOR

No	Column	ID	Title of Column	Туре	Length	NULL
1	SN		Serial No.	NUMERIC	6	NotNull

2 U	JID	UUID	VARCHAR 50	NotNull

3 TIMESTAMP timestamp VARCHAR 20 Null

ERD



Properties

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

Device Application

res/xml/config.xml

<!-- Server Directory for eGov Interface Device API Class --> <?xmlversion="1.0"encoding="utf-8"?> <resources> <stringname="SERVER_URL">http://192.168.100.222:8080/DeviceAPIGuideTotal_Web _V1.7.1</string> </resources> AndroidManifest.xml

Android Manifest.xmi

<uses-permissionandroid:name="android.permission.VIBRATE"/> Server Application

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

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

Functions

Notify with sound

Business Logic

Notifies the user using beeps at the set notification time.

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 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

Action	URL	Controller metho	QuervID
Action	UKL	d	QueryID

The second second second	오후 1:57	1 ◎ \$ 100%
Vibrator	(Android App	이드 프로그램)
가능설맥	キルッキ	라마선스
notification / 뒤 별정한 시간・ 사유 자네게 알락 다.	API를 호출하여 할 이 되면 Vibrator, 등 전달하는 가이도	'림 시간을 설정한 Beep를 사후하여 드 프로그램 입니
노리로 알림 : (신우스로 알림 :	Off	
바미나 철적	¥ \$	알림
(He let 설정 (He let 설정 (1) 전 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	2 ¥ ¥	상왕 중지만요 - 성지만요

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.

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 set for " + setTime + " seconds.", "Alert", "b");
}
```

```
}
```

```
function fn_egov_set_alram() {
```

...

console.log("DeviceAPIGuide fn_egov_set_alram Success");

...

```
if($("#swchVibration").val() === "on") {
```

navigator.notification.vibrate(3000);

```
}
```

}

```
fu again incant data
```

```
fn_egov_insert_data();
```

```
jAlert("Alarm", "Alert", "b");
```

Related Screen and Implementation Manual

URL

Action

Controller metho d

QueryID

Send notification informatio /vbr/addVibratorAndroidInfo.d n o insertVibrator

"vibratorAndroidAPIDAO.insertVibrato r"

. onen	오후 1:57	1 🛛 🎗 100%
Vibrator •	(Android App)	드 프로그램
기부널명	キェッキ	라니션스
notification # 뒤 설정한 시간* 사·유·자·세계 알림 다.	아내를 도망하지, 3 I 되면 Vibrator, B 을 전달와는 가이드	8 시간을 알았던 eep 를 타수카여 프로그램 입니
HE . 5 . 181 .	Off	
501		
h in 설전	¥ ‡ ¥	ł
()	초 후 실	¥ ∲749£

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.

Code

});

```
function fn_egov_select_data() {
    var url = "/vbr/VibratorAndroidInfoList.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

t.do

Action	URL	Controller metho d	QueryID
Notification information	inq /vbr/VibratorAndroidInfoLis	selectVibratorInfoL	"vibratorAndroidAPIDAO.selectVibrator

ist

uiry

List"



Displays notification information list saved in server.

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

Compiling, debugging, distributing

Compiling

VibratorAPI Device Applicaton Compile method

• Choose project > Right-click > Run As > Android Application



• Top menu > Run As > Android Application



• Select target to run > emulator, Device(debug mode)

🔘 And	Iroid Device Chooser	r				-			X
Select	a device compatible oose a running Andro	with target And old device	roid 2.2.						
	Serial Number		AVD Name		Target		Debug	Stat	e
	🗐 test [emulator-5	554]	test		 Android 	2.2	Yes	Onli	ine
	🖥 samsung-shw_m	1250s-304D1	N/A		✓ 2.3.3			Onli	ine
© Lau	nch a new Android \	/irtual Device							
	AVD Name	Target Name		Platform	API Level	CPU/A	BI		Details
		No AVD availa	ble					[Start Refresh Manager
🔲 Use	same device for fut	ure launches				(ОК		Cancel

• Program display on the emulator



• Program display on the device



	오후 1:57	1 ◎ \$ 100%
Vibrator c	INF*I≏ API 71* (Android App)	।⊆ 프로그램)
기능설명	キェッキ	라니너스
뒤 설정한 시간• 사후자•1게 알림 다.	I 되면 Vibrator, 1 을 전달카는 가이드	Beep 를 나추봐~ . 프로그램 입니
NE . 5 . 121 .	Off	
	1 \$ \$	18
타 더 날것		
타 IPH 철것 () 일립 목록		छ सुरुख

How to compile VibratorAPI Server Applicaton

• Right-click on the project and click on Run As>Run On Server in order to run the VibratorAPI server-side Guide Program.

DeviceAPIGuide		Properties	Alt+Enter				
		Configure	,				
		eGovFrame	,	1	min consignations.		
T intervery several		PMD			Run Configurations		
		Java EE Tools		-	Maven test		
		Spring Tools		-	Maven source jar		
		Path Tools		mit	Maven package		
		Restore from Local History		ma	Maven install		
		Replace With	,	mt	9 Maven generate-sources		
IL Tomcat v6.0 Security		Compare With	,	-1	8 Maven clean		
H. Conser 12	100	Team		-	7 Maven build	Constant of the	
	mt	Maven	,	-	6 Maven build	Alt+Shift+X, M	
		Validate		-	5 Maven assembly assembly		
		Coverage As		Ju	4 Sinit Test	Alt-Shift+X T	
		Denfile As		1	3 lava Application	Alt-Shift-X	
		Debug As		20	2 Isva Anglet	Alt Shift Y A	
		Run Ar		1.0	1 Run on Senier	Alt-Chit-Y R	
		Close Project Close Unrelated Projects Assian Working Sets					
	4	Refresh	FS				
		Find Bugs		1			
	4	Export_					
	ès:	Import_		1			
> 5 Coner Projects		Refactor	Alt+Shift+T+				
> 19 03.8atch		Source	Alt-Shift-S+				
> 1 > 02.Android		Build Path	a char share shan				
 build 231 bar stc 568 bar stc 568 bar stc 568 		Barrows from Context	ChileAlt-Shift-Down				
	×	Delete	Delete				
		Faste	Ctrl+V				
Maven Depen RF System Life		Copy Qualified Name	- corre				
> mi Web App Libr.	-	Conv	CHILC	1			
en sic/test/resour		Show In	Alt-Shift+W +				
CA sec/test/lava 5		Open Type Hierarchy	F4				
src/main/java		Open in New Window					
- DeviceAPIGuide		Go Into		1			
In the strange web 11		146.48	,	1			

• When the build is successfully completed, a message reading 'Server Startup in xxx ms' will display on the console window on the Eclipse.

```
2012-09-14 09:15:49,759 DEBUG [org.springframework.beans.factory.support.DefaultListableBeanFactory] Returning cached instance of singleton bean 'org.springframework.web.serv
2012-09-14 09:15:49,767 DEBUG [org.springframework.beans.factory.support.DefaultListableBeanFactory] Returning cached instance of singleton bean 'org.springframework.web.serv
2012-09-14 09:15:49,768 DEBUG [org.springframework.beans.factory.support.DefaultListableBeanFactory] Creating instance of bean 'org.springframework.web.servlet.view.
2012-09-14 09:15:49,771 DEBUG [org.springframework.beans.factory.support.DefaultListableBeanFactory] Finished creating instance of bean 'org.springframework.web.servlet.view.
2012-09-14 09:15:49,771 DEBUG [org.springframework.beans.factory.support.DefaultListableBeanFactory] Finished creating instance of bean 'org.springframework.web.servlet.view.
2012-09-14 09:15:49,771 DEBUG [org.springframework.beans.factory.support.DefaultListableBeanFactory] Finished creating instance of singleton bean 'org.springframework.web.servlet.view.
2012-09-14 09:15:49,771 DEBUG [org.springframework.beans.factory.support.DefaultListableBeanFactory] Returning cached instance of singleton bean 'org.springframework.web.servlet.view.
2012-09-14 09:15:49,771 DEBUG [org.springframework.web.servlet.DispatcherServlet] Unable to locate RequestroViewNameTranslator in start 'org.springframework.web.servlet.
2012-09-14 09:15:49,772 DEBUG [org.springframework.web.servlet.DispatcherServlet] Published WebApplicationContext of servlet 'action' as ServleContext attribute with name [c
2012-09-14 09:15:49,772 DEBUG [org.springframework.web.servlet.DispatcherServlet] Servlet 'action' configured successfully
2012. 9. 14 2£9:15:49 org.apache.jk.common.channelSocket init
29: starting Coyote HTFV/i.1 on http=80
2012. 9. 14 2£9:15:49 org.apache.jk.server.JkMain start
29: J. Sringf J: 54:54 org.apache.jk.server.JkMain start
29: Server startup in 7209 ms
```

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.

See the following for how to code console.log:

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

When the debugging code is executed, check out the following console message appears:

Saved Filters 💠 🗕 📝	Sea	verbose 🔹 🛃 📖 🚽					
All messages (no filters) (L	Time	PID	TID	Application	Tao	Text
kr.go.egovframework.hyb	D	09-28 12:56:14.735	23905	23905	kr.go.egovframework.hyb.compas	CordovaLog	file:///android asset
	I	09-28 12:56:14.735	23905	23905	kr.go.egovframework.hyb.compas	Web Console	DeviceAPIGuide fn ego
	D	09-28 12:56:14.765	23905	23905	kr.go.egovframework.hyb.compas	CordovaLog	DeviceAPIGuide fn_ego
	D	09-28 12:56:14.765	23905	23905	kr.go.egovframework.hyb.compas	CordovaLog	file:///android_asset
	I	09-28 12:56:14.765	23905	23905	kr.go.egovframework.hyb.compas	Web Console	DeviceAPIGuide fn_ego
	D	09-28 12:56:14.795	23905	23905	kr.go.egovframework.hyb.compas	CordovaLog	DeviceAPIGuide fn_ego
	D	09-28 12:56:14.795	23905	23905	kr.go.egovframework.hyb.compas	CordovaLog	file:///android_asset
	I	09-28 12:56:14.795	23905	23905	kr.go.egovframework.hyb.compas	Web Console	DeviceAPIGuide fn_ego
	D	09-28 12:56:14.825	23905	23905	kr.go.egovframework.hyb.compas	CordovaLog	DeviceAPIGuide fn_ego
	D	09-28 12:56:14.825	23905	23905	kr.go.egovframework.hyb.compas	CordovaLog	file:///android_asset
(-	** ** ** ** ** **	m				

Vibrator device API Guide Program will output the following console information for debugging.

Debug code	Debug information
DeviceAPIGuide fn_egov_insert_data request Completed	Successfully saved device's notification setting information to web ser ver application.
DeviceAPIGuide fn_egov_select_data request Completed	Successfully inquired device's notification setting information to web server application.
DeviceAPIGuide fn_egov_set_alram Success	Successfully executed notification set by the user.
Distribution	

Download Vibrator Device API Guide: Click

References

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