Constants:

public final class Constants {

public static final String EXTENSION\_KEY =

Constants.class.getPackage().getName() + ".key";

public static final String LOG\_TAG = "Start";

private Constants() {

}

}

MessageActivity:

import com.sonyericsson.extras.liveware.aef.registration.Registration;

import android.app.Activity;

import android.content.Context;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.Button;

import android.widget.Toast;

public final class MessageActivity extends Activity {

@Override

public void onCreate(final Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.phonelayout);

Button btnGlass = (Button) findViewById(R.id.btnglass);

btnGlass.setOnClickListener(new OnClickListener() {

@Override

public void onClick(final View v) {

startExtension();

}

});

Bundle extras = getIntent().getExtras();

if (extras != null) {

String message = extras.getString("Message");

Toast.makeText(getApplicationContext(), message, Toast.LENGTH\_LONG)

.show();

}

if (MessageExtensionService.Object == null) {

Intent intent = new Intent(Registration.Intents

.EXTENSION\_REGISTER\_REQUEST\_INTENT);

Context context = getApplicationContext();

intent.setClass(context, MessageExtensionService.class);

context.startService(intent);

}

}

public void startExtension() {

// Check ExtensionService is ready and referenced

if (MessageExtensionService.Object != null) {

MessageExtensionService.Object

.sendMessageToExtension("Get started");

}

}

}

MessageControl:

import android.content.Context;

import android.util.Log;

import com.sony.smarteyeglass.SmartEyeglassControl;

import com.sony.smarteyeglass.extension.util.SmartEyeglassControlUtils;

import com.sonyericsson.extras.liveware.extension.util.control.ControlExtension;

import com.sonyericsson.extras.liveware.extension.util.control.ControlTouchEvent;

public final class MessageControl extends ControlExtension {

private final SmartEyeglassControlUtils utils;

private static final int SMARTEYEGLASS\_API\_VERSION = 1;

public MessageControl(final Context context,

final String hostAppPackageName, final String message) {

super(context, hostAppPackageName);

utils = new SmartEyeglassControlUtils(hostAppPackageName, null);

utils.setRequiredApiVersion(SMARTEYEGLASS\_API\_VERSION);

utils.activate(context);

MessageExtensionService.Object.SmartEyeglassControl = this;

if (message != null) {

showToast(message);

} else {

updateLayout();

}

}

public void requestExtensionStart() {

startRequest();

}

@Override

public void onResume() {

updateLayout();

super.onResume();

}

@Override

public void onDestroy() {

Log.d(Constants.LOG\_TAG, "onDestroy: HControl");

utils.deactivate();

};

@Override

public void onTouch(final ControlTouchEvent event) {

super.onTouch(event);

MessageExtensionService.Object

.sendMessageToActivity("tapping");

}

private void updateLayout() {

showLayout(R.layout.layout, null);

sendText(R.id.btn\_update\_this, "100m");

}

public void showToast(final String message) {

Log.d(Constants.LOG\_TAG, "Timeout Dialog : MessageControl");

utils.showDialogMessage(message,

SmartEyeglassControl.Intents.DIALOG\_MODE\_TIMEOUT);

}

}

MessageExtensionReceiver:

import android.content.BroadcastReceiver;

import android.content.Context;

import android.content.Intent;

import android.util.Log;

public final class MessageExtensionReceiver extends BroadcastReceiver {

@Override

public void onReceive(final Context context, final Intent intent) {

Log.d(Constants.LOG\_TAG, "onReceive: " + intent.getAction());

intent.setClass(context, MessageExtensionService.class);

context.startService(intent);

}

}

MessageExtensionService:

import java.util.List;

import android.content.Intent;

import android.util.Log;

import com.sonyericsson.extras.liveware.aef.control.Control;

import com.sonyericsson.extras.liveware.extension.util.ExtensionService;

import com.sonyericsson.extras.liveware.extension.util.ExtensionUtils;

import com.sonyericsson.extras.liveware.extension.util.control.ControlExtension;

import com.sonyericsson.extras.liveware.extension.util.registration.DeviceInfo;

import com.sonyericsson.extras.liveware.extension.util.registration.DisplayInfo;

import com.sonyericsson.extras.liveware.extension.util.registration.RegistrationAdapter;

import com.sonyericsson.extras.liveware.extension.util.registration.RegistrationInformation;

public final class MessageExtensionService extends ExtensionService {

public static MessageControl SmartEyeglassControl;

public static MessageExtensionService Object;

private static String Message = null;

public MessageExtensionService() {

super(Constants.EXTENSION\_KEY);

Object = this;

}

@Override

public void onCreate() {

super.onCreate();

Log.d(Constants.LOG\_TAG, "onCreate: MessageExtensionService");

}

@Override

protected RegistrationInformation getRegistrationInformation() {

return new MessageRegistrationInformation(this);

}

@Override

protected boolean keepRunningWhenConnected() {

return false;

}

public void sendMessageToExtension(final String message) {

Message = message;

if (SmartEyeglassControl == null) {

startSmartEyeglassExtension();

} else {

SmartEyeglassControl.requestExtensionStart();

}

}

public void startSmartEyeglassExtension() {

Intent intent = new Intent(Control.Intents

.CONTROL\_START\_REQUEST\_INTENT);

ExtensionUtils.sendToHostApp(getApplicationContext(),

"com.sony.smarteyeglass", intent);

}

public void sendMessageToActivity(final String message) {

Intent intent = new Intent();

intent.setClass(getBaseContext(), MessageActivity.class);

intent.addFlags(Intent.FLAG\_ACTIVITY\_NEW\_TASK);

intent.putExtra("Message", message);

startActivity(intent);

}

@Override

public ControlExtension createControlExtension(

final String hostAppPackageName) {

ScreenSize size = new ScreenSize(this);

final int width = size.getWidth();

final int height = size.getHeight();

List<DeviceInfo> list = RegistrationAdapter.getHostApplication(

this, hostAppPackageName).getDevices();

for (DeviceInfo device : list) {

for (DisplayInfo display : device.getDisplays()) {

if (display.sizeEquals(width, height)) {

return new MessageControl(this,

hostAppPackageName, Message);

}

}

}

throw new IllegalArgumentException("No control for: "

+ hostAppPackageName);

}

}

MessageRegistrationInformation:

import android.content.ContentValues;

import android.content.Context;

import com.sonyericsson.extras.liveware.aef.registration.Registration.ExtensionColumns;

import com.sonyericsson.extras.liveware.extension.util.ExtensionUtils;

import com.sonyericsson.extras.liveware.extension.util.registration.RegistrationInformation;

public final class MessageRegistrationInformation

extends RegistrationInformation {

private final Context context;

private static final int CONTROL\_API\_VERSION = 4;

public MessageRegistrationInformation(final Context context) {

this.context = context;

}

@Override

public int getRequiredControlApiVersion() {

return CONTROL\_API\_VERSION;

}

@Override

public int getTargetControlApiVersion() {

return CONTROL\_API\_VERSION;

}

@Override

public int getRequiredSensorApiVersion() {

return API\_NOT\_REQUIRED;

}

@Override

public int getRequiredNotificationApiVersion() {

return API\_NOT\_REQUIRED;

}

@Override

public int getRequiredWidgetApiVersion() {

return API\_NOT\_REQUIRED;

}

@Override

public ContentValues getExtensionRegistrationConfiguration() {

String iconHostapp = getUriString(R.drawable.icon);

String iconExtension = getUriString(R.drawable.icon\_extension);

String iconExtension48 = getUriString(R.drawable.icon\_extension48);

ContentValues values = new ContentValues();

values.put(ExtensionColumns.CONFIGURATION\_ACTIVITY,

MessageActivity.class.getName());

values.put(ExtensionColumns.CONFIGURATION\_TEXT,

context.getString(R.string.configuration\_text));

values.put(ExtensionColumns.NAME,

context.getString(R.string.extension\_name));

values.put(ExtensionColumns.EXTENSION\_KEY, Constants.EXTENSION\_KEY);

values.put(ExtensionColumns.HOST\_APP\_ICON\_URI, iconHostapp);

values.put(ExtensionColumns.EXTENSION\_ICON\_URI, iconExtension);

values.put(ExtensionColumns.EXTENSION\_48PX\_ICON\_URI, iconExtension48);

values.put(ExtensionColumns.NOTIFICATION\_API\_VERSION,

getRequiredNotificationApiVersion());

values.put(ExtensionColumns.PACKAGE\_NAME, context.getPackageName());

return values;

}

@Override

public boolean isDisplaySizeSupported(final int width, final int height) {

ScreenSize size = new ScreenSize(context);

return size.equals(width, height);

}

private String getUriString(final int id) {

return ExtensionUtils.getUriString(context, id);

}

}

ScreenSize:

import android.content.Context;

import android.content.res.Resources;

public final class ScreenSize {

private final int width;

private final int height;

private final Context context;

public ScreenSize(final Context context) {

this.context = context;

Resources res = context.getResources();

width = res.getDimensionPixelSize(R.dimen.smarteyeglass\_control\_width);

height = res.getDimensionPixelSize(

R.dimen.smarteyeglass\_control\_height);

}

public Context getContext() {

return context;

}

public int getWidth() {

return width;

}

public int getHeight() {

return height;

}

public boolean equals(final int width, final int height) {

return this.width == width && this.height == height;

}

}