Listing PIM databases using JSR-75

COPY-PASTE the desired platforms into the wiki text and save. All relevant version categories should be applied.
Windows Phone: [[Category:Windows Phone]]
[[Category:Windows Phone 7.5]]
[[Category:Windows Phone 8]]

Nokia Asha: [[Category:Nokia Asha]]
[[Category:Nokia Asha Platform 1.0]]

Series 40: [[Category:Series 40]]
[[Category:Series 40 1st Edition]] [[Category:Series 40 2nd Edition]]
[[Category:Series 40 3rd Edition (initial release)]] [[Category:Series 40 3rd Edition FP1]] [[Category:Series 40 3rd Edition FP2]]
[[Category:Series 40 5th Edition (initial release)]] [[Category:Series 40 5th Edition FP1]]
[[Category:Series 40 6th Edition (initial release)]] [[Category:Series 40 6th Edition FP1]] [[Category:Series 40 Developer Platform 1.0]] [[Category:Series 40 Developer Platform 1.1]] [[Category:Series 40 Developer Platform 2.0]]

Symbian: [[Category:Symbian]]
[[Category:S60 1st Edition]] [[Category:S60 2nd Edition (initial release)]] [[Category:S60 2nd Edition FP1]] [[Category:S60 2nd Edition FP2]]
[[Category:S60 2nd Edition FP3]]
[[Category:S60 3rd Edition (initial release)]] [[Category:S60 3rd Edition FP1]] [[Category:S60 3rd Edition FP2]]
[[Category:S60 5th Edition]]
[[Category:Symbian^3]] [[Category:Symbian Anna]] [[Category:Nokia Belle]]

Overview

The Personal Information Manager (PIM) API for Java ME (JSR-75) allows mobile Java applications to read/write to/from the locally stored personal information databases. There are three categories of PIM databases: contacts, calendar, and to-do. This code snippet demonstrates how to list PIM databases (also called PIM lists) that exist on the device.

Note: Don't be surprised if the MIDlet asks several times for permission to read user data. This is due to the `javax.microedition.pim.PIM.listPIMLists()` method call and normal behavior for untrusted MIDlets.

Source file: PIMMIDlet.java

```
import javax.microedition.lcdui.Display;
import javax.microedition.midlet.MIDlet;
```

```
public class PIMMIDlet extends MIDlet {
    private PIMDbForm pimDatabases;

    /**
     * Constructor. Constructs the object and initializes displayables.
     */
    public PIMMIDlet() {
        pimDatabases = new PIMDbForm(this);
    }

    /**
     * From MIDlet.
     * Called when the MIDlet is started.
     */
    public void startApp() {
        Display.getDisplay(this).setCurrent(pimDatabases);
    }

    /**
     * From MIDlet.
     * Called to signal the MIDlet to enter the Paused state.
     */
    public void pauseApp() {
        // No implementation required
    }

    /**
     * From MIDlet.
     * Called to signal the MIDlet to terminate.
     * @param unconditional whether the MIDlet has to be unconditionally
     * terminated
     */
    public void destroyApp(boolean unconditional) {
        // No implementation required
    }
}
```

Source file: PIMDbForm.java

```
import javax.microedition.lcdui.Command;
import javax.microedition.lcdui.CommandListener;
import javax.microedition.lcdui.Displayable;
import javax.microedition.lcdui.Form;
import javax.microedition.lcdui.StringItem;
import javax.microedition.pim.PIM;
```


(C) Copyright Nokia 2013. All rights reserved.

```
/**
 * A list of PIM databases.
 */
public class PIMDbForm extends Form implements CommandListener {
    private Command exitCommand;
    private PIMMIDlet parent;
    private int itemCounter = 0;  // How many items are listed

    public PIMDbForm(PIMMIDlet parent) {
        super("PIM databases");

        this.parent = parent;

        exitCommand = new Command("Exit", Command.EXIT, 0);
        addCommand(exitCommand);
        setCommandListener(this);

        // Retrieve the PIM instance
        PIM pim = PIM.getInstance();
        // Add each type of PIM lists (PIM databases) to the form
        addList(PIM.CONTACT_LIST, pim);
        addList(PIM.EVENT_LIST, pim);
        addList(PIM.TODO_LIST, pim);
    }

    public void commandAction(Command command, Displayable displayable) {
        if (command == exitCommand) {
            // Exit the MIDlet
            parent.notifyDestroyed();
        }
    }

    /**
     * Adds the names of specific types of PIM lists (databases) to the form.
     * @param listType the type of list
     * @param pim PIM instance from which the databases are queried
     */
    private void addList(int listType, PIM pim) {
        String[] list = pim.listPIMLists(listType);
        for (int i = 0; i < list.length; i++) {
            itemCounter++;
            StringItem item = new StringItem("Database " + itemCounter, list[i]);
            append(item);
        }
    }
}
```

Postconditions

The MIDlet displays all PIM databases that exist on the device on a form.

(C) Copyright Nokia 2013. All rights reserved.

(C) Copyright Nokia 2013. All rights reserved.