Finding contact manager in Qt

This code snippet demonstrates how to search contact back-end managers in Qt using the Qt Mobility Contacts module.

Qt project file

```
CONFIG += mobility
MOBILITY = contacts
```

```
symbian {
TARGET.CAPABILITY = ReadUserData WriteUserData
}
```

Header

```
#include <QtGui/QMainWindow>
#include <QPointer>

// QtMobility
#include <qcontactmanager.h>
#include <qcontact.h>
QTM_USE_NAMESPACE

class qtSnippets : public QMainWindow
{
    Q_OBJECT

public:
    qtSnippets(QWidget *parent = 0);
    ~qtSnippets();

private slots:
    void createManager();

private:
    QPointer<QContactManager> m_contactManager;
};
```

Source

```
#include <QTimer>
#include <QMessageBox>

qtSnippets::qtSnippets(QWidget *parent)
    : QMainWindow(parent)
{
    // Let application to startup fully and then
    // create manager
    QTimer::singleShot(0, this, SLOT(createManager()));
}

qtSnippets::~qtSnippets()
{
    delete m_contactManager;
}

void qtSnippets::createManager()
{
    // Get list of different contact back-ends
    QStringList availableManagers = QContactManager::availableManagers();

    QList<QContactLocalId> contactIds;
    // Try to find contacts from some back-end
    while (!availableManagers.isEmpty()) {
        // Get some manager
        m_contactManager = new QContactManager(availableManagers.first());
        availableManagers.removeFirst();

        // Contacts exists?
        contactIds = m_contactManager->contactIds();
        if (!contactIds.isEmpty()) {
            // Contact found
            availableManagers.clear();
            break;
        }
        else {
            // Not found, try the next manager
            delete m_contactManager;
            m_contactManager = 0;
        }
    }

    // Use default if no contact found from any back-end
    if (!m_contactManager) {
        m_contactManager = new QContactManager();
    }

    // Show message to the user
    QString msg = QString("Manager %1 created, that has %2 contacts")
    .arg(m_contactManager->managerName()).arg(contactIds.count());
    QMessageBox::information(this,"Contacts",msg);
}
```


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You can also create QContactManager to stack using **symbian** or **maemo5** backend keys:

```
// Create manager (Symbian backend)
QContactManager contactManager("symbian");
```

```
// Create manager (Maemo 5, Nokia N900 backend)
QContactManager contactManager("maemo5");
```

Postconditions

Contact manager is found.

See also

- Setting up Qt Mobility
- http://doc.qt.nokia.com/qtmobility-1.0/contacts.html

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