Reading contact data in Qt

This code snippet demonstrates how to read contact data using the Qt Mobility Contacts module.

Overview

Contact data can be read through QContactDetail and all of its subclasses.

Qt project file

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

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

Header

```
// QtMobility
#include <qcontactmanager.h>
#include <qcontact.h>
#include <qcontactdetailfilter.h>
#include <qcontactphonenumber.h>
#include <qcontactemailaddress.h>
QTM_USE_NAMESPACE

private:
    QPointer<QContactManager> m_contactManager;
```

Source

1) Create manager first, see more in Finding contact manager in Qt.

```
// Create manager (Symbian backend)
m_contactManager = new QContactManager("symbian");
```

2) Search one contact, see more in Searching contact in Qt.

```
QContact contact = searchContact("1234567890");
```

3) Reading contact detail data

3.1) Data can be read using `QContactDetail` subclasses (for instance, `QContactDisplayLabel` and `QContactEmailAddress`).

```
QContactDisplayLabel displayLabel = contact.detail(QContactDisplayLabel::DefinitionName);
QMessageBox::information(this,"QContactDisplayLabel",displayLabel.label());

QContactEmailAddress email = contact.detail(QContactEmailAddress::DefinitionName);
QMessageBox::information(this,"QContactEmailAddress",email.emailAddress());
```

3.2) Looping through all `QContactDetail` of `QContact`

```
QString s;
QList<QContactDetail> allDetails = contact.details();
foreach (const QContactDetail& detail, allDetails) {
    s += detail.definitionName();
    s += " : ";
    QVariantMap fieldValues = detail.variantValues();
    QStringList keys = fieldValues.keys();
    foreach (const QString& key, keys) {
        s += key + "=" + detail.value(key) + ";";
    }
    s += "\n";
}

// Show all QContactDetail data to the user
QMessageBox::information(this,"QContactDetail",s);
```

Postconditions

`QContactDetail` data is searched and shown to the user.

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See also

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

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