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CS001431 - Creating an HTTP network request in Qt

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ID	CS001431	**Creation date**	June 16, 2009
Platform	S60 3rd Edition, FP1, FP2 S60 5th Edition	**Tested on devices**	Nokia 5800 XpressMusic
Category	Qt for Symbian	**Subcategory**	Networking

Keywords (APIs, classes, methods, functions): QNetworkAccessManager, QUrl, QNetworkReply, QNetworkRequest

Overview

This code snippet demonstrates how to use `QNetworkAccessManager` for sending an HTTP request.

Note: In order to use this code, you need to have Qt for Symbian installed on your platform.

Preconditions

- Install latest Qt for Symbian see **Qt for Symbian - Installation packages**
- Check this link for installation guide: **How to install the package**.
- Go through this article: **Getting started with Qt for Symbian**

Header

```
#include <QNetworkAccessManager>
#include <QUrl>
#include <QNetworkRequest>
#include <QNetworkReply>

QNetworkAccessManager* nam;
```

Source

Create `QNetworkAccessManager` and start listening for its `finished` signal.

```
nam = new QNetworkAccessManager(this);
QObject::connect(nam, SIGNAL(finished(QNetworkReply*)),
         this, SLOT(finishedSlot(QNetworkReply*)));
```

HTTP GET request:

```
QUrl url("http://www.forum.nokia.wiki");
QNetworkReply* reply = nam->get(QNetworkRequest(url));
// NOTE: Store QNetworkReply pointer (maybe into caller).
// When this HTTP request is finished you will receive this same
// QNetworkReply as response parameter.
// By the QNetworkReply pointer you can identify request and response.
```

When the `QNetworkAccessManager::finished` signal is received, the HTTP request is completed.

```
void MyHttpEngine::finishedSlot(QNetworkReply* reply)
{
    // Reading attributes of the reply
    // e.g. the HTTP status code
    QVariant statusCodeV =
    reply->attribute(QNetworkRequest::HttpStatusCodeAttribute);
    // Or the target URL if it was a redirect:
    QVariant redirectionTargetUrl =
    reply->attribute(QNetworkRequest::RedirectionTargetAttribute);
    // see CS001432 on how to handle this

    // no error received?
    if (reply->error() == QNetworkReply::NoError)
    {
        // read data from QNetworkReply here

        // Example 1: Creating QImage from the reply
        QImageReader imageReader(reply);
        QImage pic = imageReader.read();

        // Example 2: Reading bytes form the reply
        QByteArray bytes = reply.readAll();  // bytes
        QString string(bytes); // string
    }
    // Some http error received
    else
    {
        // handle errors here
    }

    // We receive ownership of the reply object
    // and therefore need to handle deletion.
    delete reply;
}
```

See also

- For more information about `QNetworkAccessManager`, see **QNetworkAccessManager Class Reference**
- **CS001432 - Handling an HTTP redirect with QNetworkAccessManager**

Postconditions

An HTTP response is received.

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