Display local web page with Qt WebKit

Overview

This snippet demonstrates how to display a local web page with the Qt WebKit.

Preconditions

None

Code

First we'll create a simple XHTML web page and add a style sheet to it and then we'll display it.

html/view.html

Here's the source of a very simple XHTML web page.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
  <head>
    <!-- You reference the resources with qrc:// -->
    <!-- Stylesheet reference -->
    <link rel="stylesheet" href="qrc:///css/view.css" />

    <title>WebKit example</title>
  </head>
  <body>
    <!-- Header -->
    <h1 id="header">Welcome</h1>
    <!-- Paragraph -->
    <p id="paragraph">Hello World!</p>
    <!-- Form -->
    <form id="form" action="#">
      <fieldset>
        <label for="text">Text</label>
        <!-- Text input -->
        <input id="text" type="text" />
        <!-- Submit button -->
        <input id="button" type="button" value="Submit!"/>
      </fieldset>
    </form>
  </body>
</html>
```

css/view.css

A simple cascading style sheet which we use to modify the style of the web page:

```
@CHARSET "UTF-8";

html {
    background-color: lightgray;
    margin: 1em 0 0 1em;
    padding: 0;
}

body {
    margin: 0;
    padding: 0;
}

h1#header {
    color: black;
    margin: 0;
    padding: 0;
}

p {
    color: black;
    margin: 0 0 0 5pt;
    padding: 0;
}

form#form {
    color: black;
    margin: 0 0 0 5pt;
    padding: 0;
}

fieldset {
    border: 0;
}
```

Add these files to the resources file and include the resource file in your project file as explained in Using resources in Qt.

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The Qt code to display the web page with QWebview:

src/qwet.h

```
#ifndef QWET_H
#define QWET_H

#include <QtCore/QPointer>

#include <QtWebKit/QWebView>
#include <QtWebKit/QWebPage>
#include <QtWebKit/QWebFrame>

#include <QtGui/QWidget>
#include <QtGui/QApplication>
#include <QtGui/QMainWindow>
#include <QtGui/QFrame>
#include <QtGui/QVBoxLayout>

class QWET : public QMainWindow
{
    Q_OBJECT

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

private:
    QPointer<QWebView> _webView;
    QPointer<QVBoxLayout> _layout;

    void setupUI();
};

#endif // QWET_H
```

src/qwet.cpp

```
#include "qwet.h"

QWET::QWET(QWidget *parent) : QMainWindow(parent)
{
    setupUI();
}

QWET::~QWET()
{
}

void QWET::setupUI()
{
    /**
      * Create the central widget
      * and set it.
      */
    QFrame* cW = new QFrame(this);
    setCentralWidget(cW);

    /**
      * Set the layout to central widget.
      */
    _layout = new QVBoxLayout(this);
    cW->setLayout(_layout);
    _layout->setMargin(0);
    _layout->setSpacing(0);

    /**
      * Let's create the web view which
      * will be used to display our page.
      */
    _webView = new QWebView(this);
    _webView->load(QUrl("qrc:///html/view.html"));
    _webView->show();

    /** Add it to layout */
    _layout->addWidget(_webView);
}
```

Postconditions

You've now created this:

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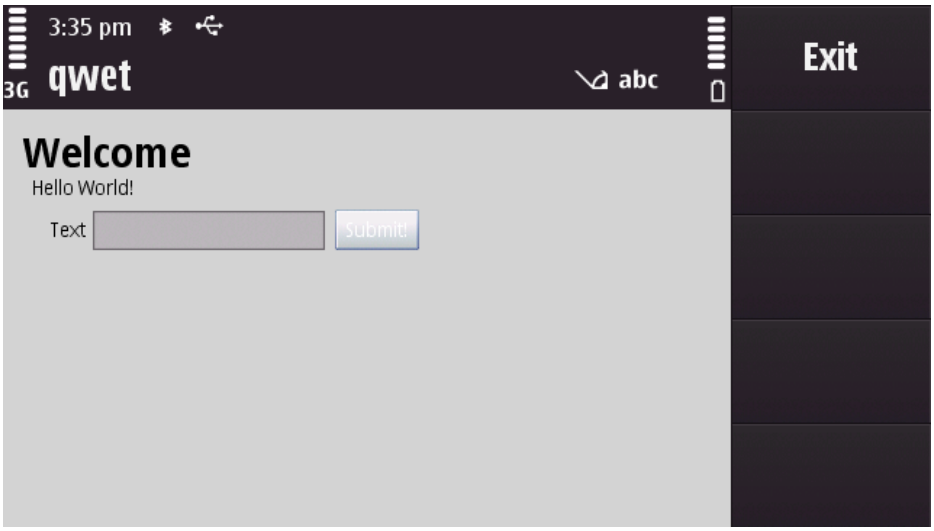

See also

- Gather data from web page with JavaScript, WebKit, and Qt
- Add data to a web page with JavaScript, WebKit, and Qt

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