

13 登录框

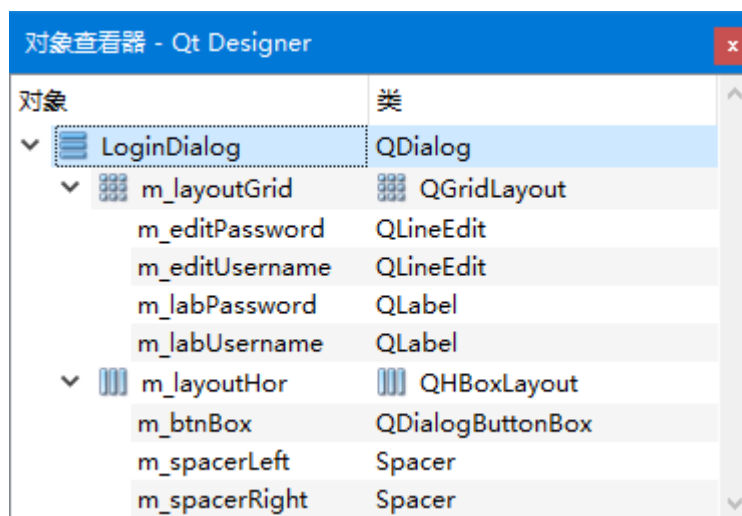
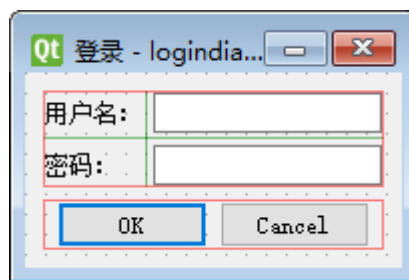
13.1 需求分析

设计并实现一个用户登录对话框。界面中包括两个单行编辑框，分别用于输入用户名和密码。编辑框的下面有OK和Cancel两个按钮。点击OK按钮，检查用户输入的用户名和密码是否为“tarena”和“123456”。若是则在调试信息中打印“登录成功”并退出程序，否则弹出消息框，提示用户“用户名或密码错误”。点击Cancel按钮，弹出消息框，询问用户“您确定要取消登录吗？”。该消息框带有Yes和No两个按钮，如果用户选择Yes，则在调试信息中打印“取消登录”并退出程序。

13.2 创建项目

通过QtCreator，在C:\Users\Minwei\Projects\Qt路径下，创建名为Login的项目。

13.3 设计界面



C:\Users\Minwei\Projects\Qt>Login\logindialog.ui:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <ui version="4.0">
3 <class>LoginDialog</class>
4 <widget class="QDialog" name="LoginDialog">
5 <property name="geometry">
6 <rect>
7 <x>0</x>
8 <y>0</y>
9 <width>188</width>
10 <height>97</height>
11 </rect>
12 </property>
13 <property name="windowTitle">
14 <string>登录</string>
```

```
15 </property>
16 <layout class="QVBoxLayout" name="m_layoutVer">
17 <item>
18 <layout class="QGridLayout" name="m_layoutGrid">
19 <item row="0" column="0">
20 <widget class="QLabel" name="m_labUsername">
21 <property name="text">
22 <string>用户名: </string>
23 </property>
24 </widget>
25 </item>
26 <item row="0" column="1">
27 <widget class="QLineEdit" name="m_editUsername"/>
28 </item>
29 <item row="1" column="0">
30 <widget class="QLabel" name="m_labPassword">
31 <property name="text">
32 <string>密码: </string>
33 </property>
34 </widget>
35 </item>
36 <item row="1" column="1">
37 <widget class="QLineEdit" name="m_editPassword">
38 <property name="echoMode">
39 <enum>QLineEdit::Password</enum>
40 </property>
41 </widget>
42 </item>
43 </layout>
44 </item>
45 <item>
46 <layout class="QHBoxLayout" name="m_layoutHor">
47 <item>
48 <spacer name="m_spacerLeft">
49 <property name="orientation">
50 <enum>Qt::Horizontal</enum>
51 </property>
52 <property name="sizeHint" stdset="0">
53 <size>
54 <width>40</width>
55 <height>20</height>
56 </size>
57 </property>
58 </spacer>
59 </item>
60 <item>
61 <widget class="QDialogButtonBox" name="m_btnBox">
62 <property name="standardButtons">
63 <set>QDialogButtonBox::Cancel|QDialogButtonBox::Ok</set>
64 </property>
65 </widget>
66 </item>
67 <item>
68 <spacer name="m_spacerRight">
69 <property name="orientation">
70 <enum>Qt::Horizontal</enum>
```

```

71     </property>
72     <property name="sizeHint" stdset="0">
73         <size>
74             <width>40</width>
75             <height>20</height>
76         </size>
77     </property>
78 </spacer>
79 </item>
80 </layout>
81 </item>
82 </layout>
83 </widget>
84 <resources/>
85 <connections/>
86 </ui>

```

13.4 实现功能

C:\Users\Minwei\Projects\Qt\Login\logindialog.h:

```

1  #ifndef LOGINDIALOG_H
2  #define LOGINDIALOG_H
3
4  #include <QDialog>
5
6  QT_BEGIN_NAMESPACE
7  namespace Ui { class LoginDialog; }
8  QT_END_NAMESPACE
9
10 class LoginDialog : public QDialog
11 {
12     Q_OBJECT
13
14 public:
15     LoginDialog(QWidget *parent = nullptr);
16     ~LoginDialog();
17
18 private slots:
19     void on_m_btnBox_accepted();
20     void on_m_btnBox_rejected();
21
22 private:
23     Ui::LoginDialog *ui;
24 };
25
26 #endif // LOGINDIALOG_H
27

```

C:\Users\Minwei\Projects\Qt\Login\logindialog.cpp:

```

1  #include <QDebug>
2  #include <QMessageBox>
3

```

```

4 #include "logindialog.h"
5 #include "ui_logindialog.h"
6
7 LoginDialog::LoginDialog(QWidget *parent)
8     : QDialog(parent)
9     , ui(new Ui::LoginDialog)
10 {
11     ui->setupUi(this);
12 }
13
14 LoginDialog::~LoginDialog()
15 {
16     delete ui;
17 }
18
19 void LoginDialog::on_m_btnBox_accepted()
20 {
21     if (ui->m_editUsername->text() == "tarena" &&
22         ui->m_editPassword->text() == "123456")
23     {
24         qDebug() << "登录成功";
25         this->close();
26     }
27     else
28         QMessageBox::critical(this, windowTitle(), "用户名或密码错误",
29                               QMessageBox::Ok);
30 }
31
32 void LoginDialog::on_m_btnBox_rejected()
33 {
34     if (QMessageBox::question(this, windowTitle(), "您确定要取消登录吗?",
35                               QMessageBox::Yes | QMessageBox::No) == QMessageBox::Yes)
36     {
37         qDebug() << "取消登录";
38         this->close();
39     }
40 }

```

13.5 测试验证

运行效果如图所示：

