

AM5728 QT5 Lab 3

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terminal.ui

Filter

Layouts

- Vertical Layout
- Horizontal Layout
- Grid Layout
- Form Layout

Spacers

- Horizontal Spacer
- Vertical Spacer

Buttons

- Push Button
- Tool Button
- Radio Button
- Check Box
- Command Link Button
- Dialog Button Box

Item Views (Model-Based)

- List View
- Tree View
- Table View
- Column View

Item Widgets (Item-Based)

- List Widget
- Tree Widget
- Table Widget

Containers

- Group Box
- Scroll Area

Hello QT5!!!

Object

| Object | Class |
|---------------|------------|
| terminal | QMain...nd |
| centralWidget | QWidg |
| label | QLabel |
| mainToolBar | QToolBar |
| statusBar | QStatusBa |

Filter

terminal : QMainWindow

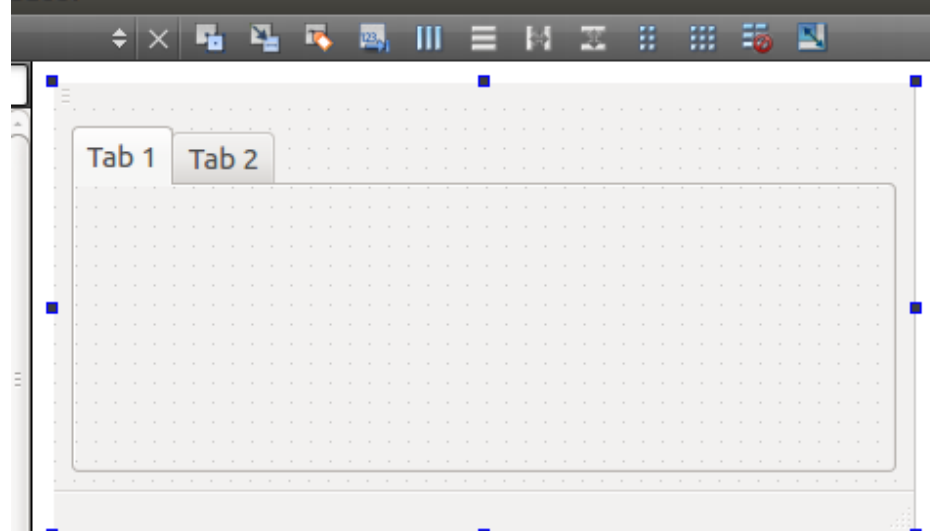
| Property | Value |
|-----------------|-------------------------------------|
| QObject | |
| objectName | terminal |
| QWidget | |
| windowModality | NonModal |
| enabled | <input checked="" type="checkbox"/> |
| ▶ geometry | [(0, 0), 400 ... |
| ▶ sizePolicy | [Preferred, ... |
| ▶ minimumSize | 0 x 0 |
| ▶ maximumSize | 16777215 x... |
| ▶ sizeIncrement | 0 x 0 |
| ▶ baseSize | 0 x 0 |
| palette | Inherited |
| font | A Ubuntu |

Name Used Text Shortcut Checkable

Action Editor Signals & Slots Editor

Type to locate (Ctrl...

1 Issues 2 Search Results 3 Application O... 4 Compile Output 5 QML/JS Console



| Object | Class |
|---------------|-------------|
| terminal | QMainWindow |
| centralWidget | QWidget |
| tabWidget | QTabWidget |
| tab | QWidget |
| tab_2 | QWidget |
| mainToolBar | QToolBar |
| statusBar | QStatusBar |

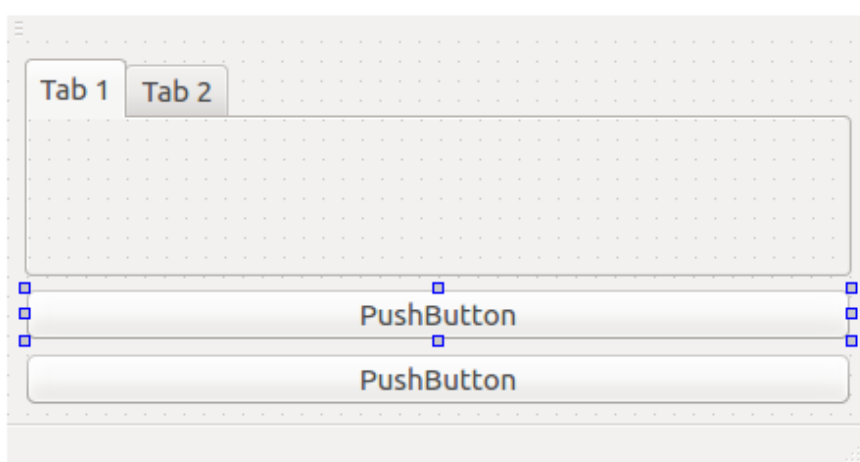
Filter + - 🔧

terminal : QMainWindow

| Property | Value |
|-------------------|-------------------------------------|
| QObject | |
| objectName | terminal |
| QWidget | |
| enabled | <input checked="" type="checkbox"/> |
| geometry | [(0, 0), 440 x 230] |
| X | 0 |
| Y | 0 |
| Width | 440 |
| Height | 230 |
| sizePolicy | [Preferred, Preferred, 0, 0] |
| minimumSize | 0 x 0 |
| maximumSize | 16777215 x 16777215 |
| sizeIncrement | 0 x 0 |

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Filter

| Name | Used | Text | Shortcut | Checkable |
|------|------|------|----------|-----------|
| | | | | |



| Object | Class |
|---------------|-------------|
| terminal | QMainWindow |
| centralWidget | QWidget |
| pushButton | QPushButton |
| pushButton_2 | QPushButton |
| tabWidget | QTabWidget |
| tab | QWidget |
| tab_2 | QWidget |
| mainToolBar | QToolBar |
| statusBar | QStatusBar |

Filter + - 🔍

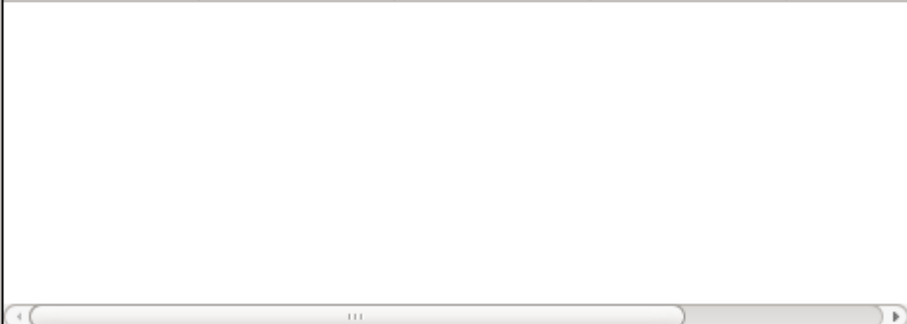
pushButton_2 : QPushButton

| Property | Value |
|---------------|-------------------------------------|
| QObject | |
| objectName | pushButton_2 |
| QWidget | |
| enabled | <input checked="" type="checkbox"/> |
| geometry | [(9, 126), 422 x 27] |
| X | 9 |
| Y | 126 |
| Width | 422 |
| Height | 27 |
| sizePolicy | [Minimum, Fixed, 0, 0] |
| minimumSize | 0 x 0 |
| maximumSize | 16777215 x 16777215 |
| sizeIncrement | 0 x 0 |



Filter

| Name | Used | Text | Shortcut | Checkable |
|------|------|------|----------|-----------|
| | | | | |



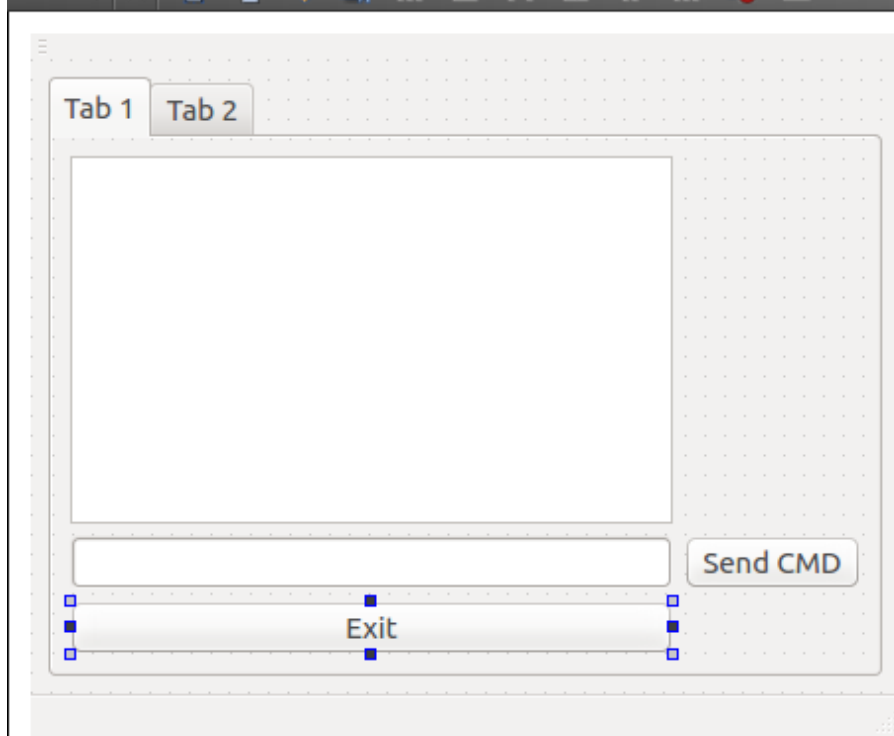
Action Editor Signals & Slots Editor





terminal : QMainWindow

| Property | Value |
|-------------------|-------------------------------------|
| QObject | |
| objectName | terminal |
| QWidget | |
| enabled | <input checked="" type="checkbox"/> |
| ▼ geometry | [(0, 0), 440 x 356] |
| X | 0 |
| Y | 0 |
| Width | 440 |
| Height | 356 |
| ▶ sizePolicy | [Preferred, Preferred, 0, 0] |
| ▶ minimumSize | 0 x 0 |
| ▶ maximumSize | 16777215 x 16777215 |
| ▶ sizeIncrement | 0 x 0 |

| Name | Used | Text | Shortcut | Checkab |
|------|------|------|----------|---------|
| | | | | |

Action Editor
Signals & Slots Editor



| Object | Class |
|-----------------------------------------------------------------------------------------------------|--------------|
| ▼ terminal | QMainWindow |
| ▼  centralWidget | QWidget |
| ▼  tabWidget | QTabWidget |
| ▼  tab | QWidget |
| lineEdit | QLineEdit |
| pus...ton | QPushButton |
| pus...n_2 | QPushButton |
| tex...ser | QTextBrowser |
|  tab_2 | QWidget |
| mainToolBar | QToolBar |
| statusBar | QStatusBar |

Filter   

pushButton : QPushButton

| Property | Value |
|---------------|-------------------------------------|
| QObject | |
| objectName | pushButton |
| QWidget | |
| enabled | <input checked="" type="checkbox"/> |
| geometry | [(9, 234), 305 x 27] |
| X | 9 |
| Y | 234 |
| width | 305 |
| Height | 27 |
| sizePolicy | [Minimum, Fixed, 0, 0] |
| minimumSize | 0 x 0 |
| maximumSize | 16777215 x 16777215 |
| sizeIncrement | 0 x 0 |

Qt Creator

Object

| Object | Class |
|---------------|--------------|
| terminal | QMainWindow |
| centralWidget | QWidget |
| tabWidget | QTabWidget |
| tab | QWidget |
| lineEdit | QLineEdit |
| pus...ton | QPushButton |
| pus...n_2 | QPushButton |
| tex...ser | QTextBrowser |
| tab_2 | QWidget |
| mainToolBar | QToolBar |
| statusBar | QStatusBar |

Filter

terminal : QMainWindow

| Property | Value |
|---------------|-------------------------------------|
| QObject | |
| objectName | terminal |
| QWidget | |
| enabled | <input checked="" type="checkbox"/> |
| geometry | [(0, 0), 440 x 356] |
| X | 0 |
| Y | 0 |
| Width | 440 |
| Height | 356 |
| sizePolicy | [Preferred, Preferred, 0, 0] |
| minimumSize | 0 x 0 |
| maximumSize | 16777215 x 16777215 |
| sizeIncrement | 0 x 0 |

Tab 1 Tab 2

Send CMD

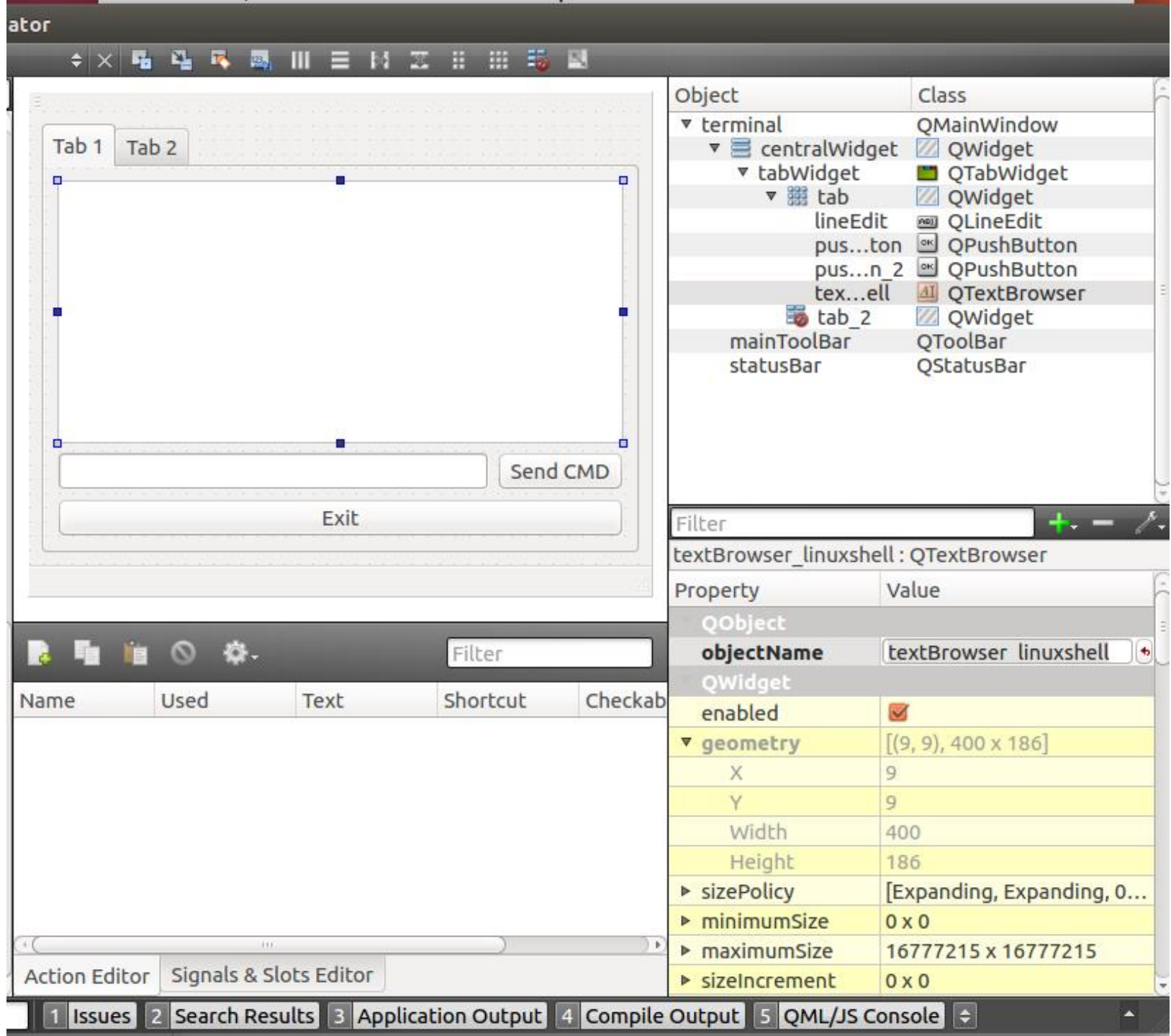
Exit

Filter

| Name | Used | Text | Shortcut | Checkab |
|------|------|------|----------|---------|
|------|------|------|----------|---------|

Action Editor Signals & Slots Editor

1 Issues 2 Search Results 3 Application Output 4 Compile Output 5 QML/JS Console

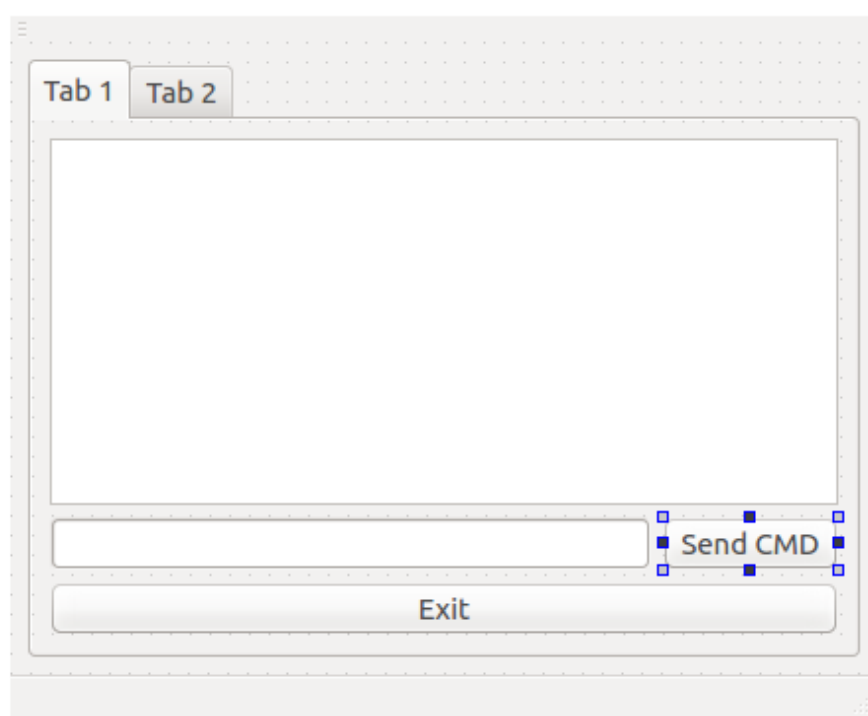


Filter

lineEdit_commandline : QLineEdit

| Property | Value |
|------------------------|-------------------------------------|
| QObject | |
| objectName | lineEdit_commandline |
| QWidget | |
| enabled | <input checked="" type="checkbox"/> |
| ▼ geometry | [(9, 201), 305 x 27] |
| X | 9 |
| Y | 201 |
| Width | 305 |
| Height | 27 |
| ► sizePolicy | [Expanding, Fixed, 0, 0] |
| ► minimumSize | 0 x 0 |
| ► maximumSize | 16777215 x 16777215 |
| ► sizeIncrement | 0 x 0 |

The screenshot displays the Qt Designer application window. At the top, there is a toolbar with icons for file operations, a search icon, and a settings icon. To the right of the toolbar is a search bar labeled "Filter". Below the toolbar is a table widget with the following columns: "Name", "Used", "Text", "Shortcut", and "Checkable". The table is currently empty. At the bottom of the window, there is a status bar with two tabs: "Action Editor" and "Signals & Slots Editor".



| Object | Class |
|---------------|--------------|
| terminal | QMainWindow |
| centralWidget | QWidget |
| tabWidget | QTabWidget |
| tab | QWidget |
| line...line | QLineEdit |
| pus...ton | QPushButton |
| pu...md | QPushButton |
| tex...ell | QTextBrowser |
| tab_2 | QWidget |
| mainToolBar | QToolBar |
| statusBar | QStatusBar |

Filter + - 🔧

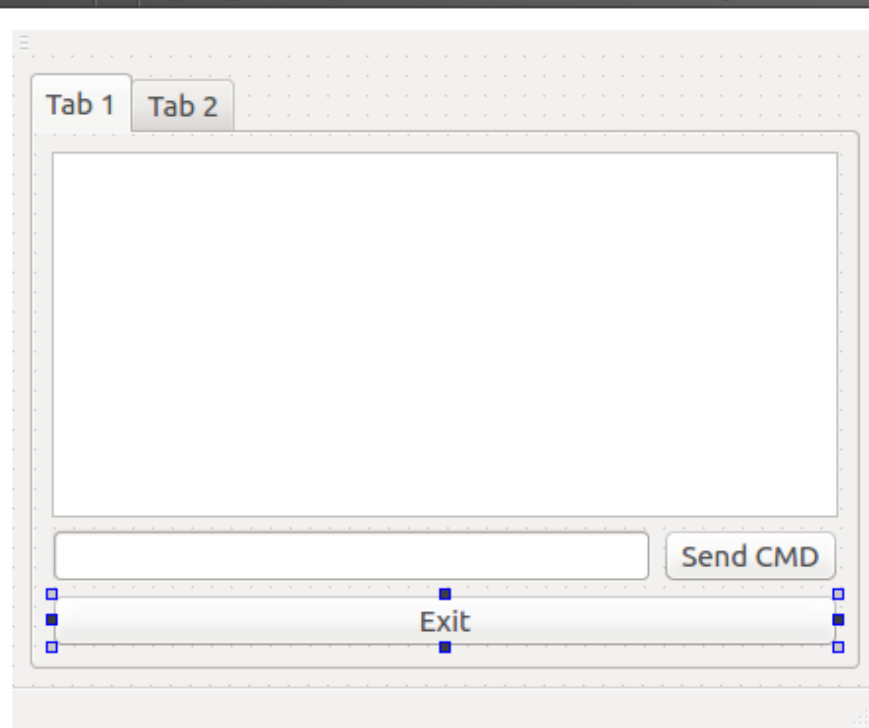
pushButton_sendcmd : QPushButton

| Property | Value |
|------------------------|-------------------------------------|
| ▼ QObject | |
| objectName | pushButton_sendcmd |
| ▼ QWidget | |
| enabled | <input checked="" type="checkbox"/> |
| ▼ geometry | [(320, 201), 89 x 27] |
| X | 320 |
| Y | 201 |
| Width | 89 |
| Height | 27 |
| ▶ sizePolicy | [Minimum, Fixed, 0, 0] |
| ▶ minimumSize | 0 x 0 |
| ▶ maximumSize | 16777215 x 16777215 |
| ▶ sizeIncrement | 0 x 0 |

📄 📁 🗑️ ⚙️ Filter

| Name | Used | Text | Shortcut | Checkab |
|------|------|------|----------|---------|
| | | | | |
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| | | | | |

Action Editor Signals & Slots Editor



Filter

| Name | Used | Text | Shortcut | Checkab |
|------|------|------|----------|---------|
| | | | | |

Action Editor

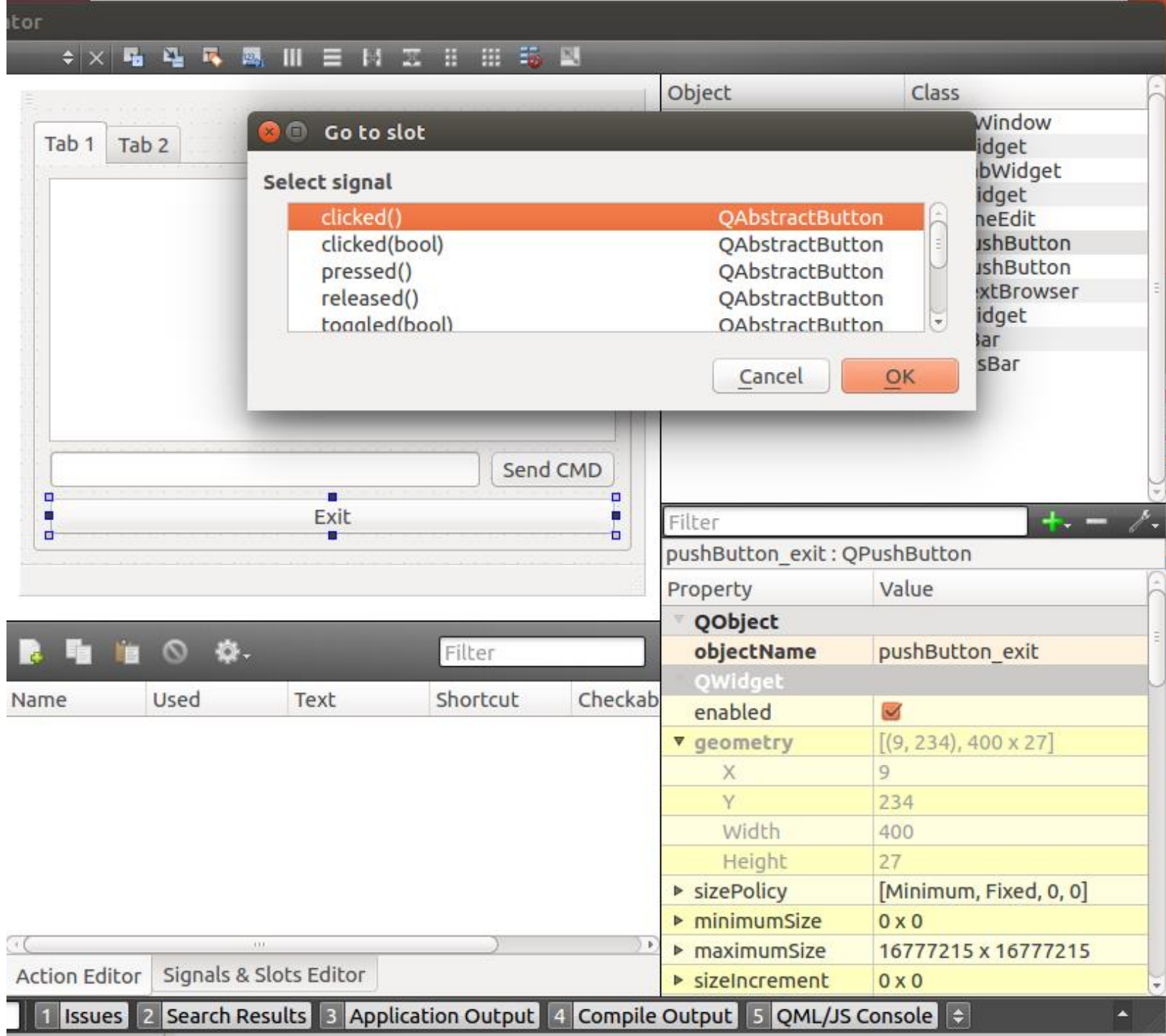
Signals & Slots Editor

| Object | Class |
|---------------|--------------|
| terminal | QMainWindow |
| centralWidget | QWidget |
| tabWidget | QTabWidget |
| tab | QWidget |
| line...line | QLineEdit |
| pus...xit | QPushButton |
| pu...md | QPushButton |
| tex...ell | QTextBrowser |
| tab_2 | QWidget |
| mainToolBar | QToolBar |
| statusBar | QStatusBar |

Filter

pushButton_exit : QPushButton

| Property | Value |
|-----------------|-------------------------------------|
| QObject | |
| objectName | pushButton_exit |
| QWidget | |
| enabled | <input checked="" type="checkbox"/> |
| geometry | [(9, 234), 400 x 27] |
| X | 9 |
| Y | 234 |
| Width | 400 |
| Height | 27 |
| sizePolicy | [Minimum, Fixed, 0, 0] |
| minimumSize | 0 x 0 |
| maximumSize | 16777215 x 16777215 |
| sizeIncrement | 0 x 0 |



terminal.cpp - terminal - Qt Creator

Projects

terminal

terminal.pro

Headers

Sources

Forms

terminal.ui

Welcome

Edit

Design

Debug

Projects

Analyze

Help

terminal

Debug

Open Documents

terminal.cpp

terminal.h*

terminal.ui

terminal.cpp

```
1  #include "terminal.h"
2  #include "ui_terminal.h"
3
4  terminal::terminal(QWidget *parent) :
5      QMainWindow(parent),
6      ui(new Ui::terminal)
7  {
8      ui->setupUi(this);
9  }
10
11 terminal::~terminal()
12 {
13     delete ui;
14 }
15
16 void terminal::on_pushButton_exit_clicked()
17 {
18     qApp->quit();
19 }
20
```

Type to locate (Ctrl...

1 Issues

2 Search Results

3 Application Output

4 Compile Output

terminal.ui

ter

Line Edit

Text Edit

Plain Text Edit

Spin Box

Double Spin Box

Time Edit

Tab 1

Tab 2

Send CMD

Go to slot

Select signal

clicked()

clicked(bool)

pressed()

released()

toggled(bool)

QAbstractButton

QAbstractButton

QAbstractButton

QAbstractButton

QAbstractButton

Cancel

OK

Label

Text Browser

Graphics View

Calendar Widget

LCD Number

Progress Bar

Horizontal Line

Vertical Line

OpenGL Widget

QQuickWidget

QWebView

Filter

| Name | Used | Text | Shortcut | Checkab |
|------|------|------|----------|---------|
|------|------|------|----------|---------|

Action Editor

Signals & Slots Editor

Object

Class

terminal

centralWidget

tabWidget

tab

line...line

pus...xit

pu...md

tex...ell

tab_2

mainToolBar

statusBar

QMair

QV

QT

QV

QL

QP

QP

QT

QV

QTool

QStat

Filter

pushButton_sendcmd : QPushButton

| Property | Value |
|------------------------------------------|-------------------------------------|
| <div>QObject</div> <div>objectName</div> | pushButt |
| <div>QWidget</div> <div>enabled</div> | <input checked="" type="checkbox"/> |
| <div>geometry</div> <div>X</div> | [(320, 20 |
| Y | 320 |
| Width | 201 |
| Height | 89 |
| sizePolicy | [Minimum |
| minimumSize | 0 x 0 |
| maximumSize | 16777215 |
| sizeIncrement | 0 x 0 |

Type to locate (Ctrl...

1 Issues

2 Search Results

3 Application Output

4 Compile Output

5 QML/JS Console

Qt
Welcome

Edit

Design

Debug

Projects

Analyze

Help

terminal

Debug

Projects

terminal.cpp

terminal::on_pushButton

terminal

terminal.pro

Headers

Sources

Forms

terminal.ui

Open Documents

terminal.cpp

terminal.h*

terminal.ui

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```
#include "terminal.h"
#include "ui_terminal.h"

#include <QtGui>

terminal::terminal(QWidget *parent) :
    QMainWindow(parent),
    ui(new Ui::terminal)
{
    ui->setupUi(this);
}

terminal::~terminal()
{
    delete ui;
}

void terminal::on_pushButton_exit_clicked()
{
    qApp->quit();
}

void terminal::on_pushButton_sendcmd_clicked()
{
    QString LinuxText2Send = ui->lineEdit_commandline->text();
    QProcess process;
    process.setProcessChannelMode(QProcess::MergedChannels);
    process.start(LinuxText2Send, QIODevice::ReadWrite);

    QByteArray data;

    while(process.waitForReadyRead())
        data.append(process.readAll());

    ui->textBrowser_linuxshell->setText(data.data());
}
```

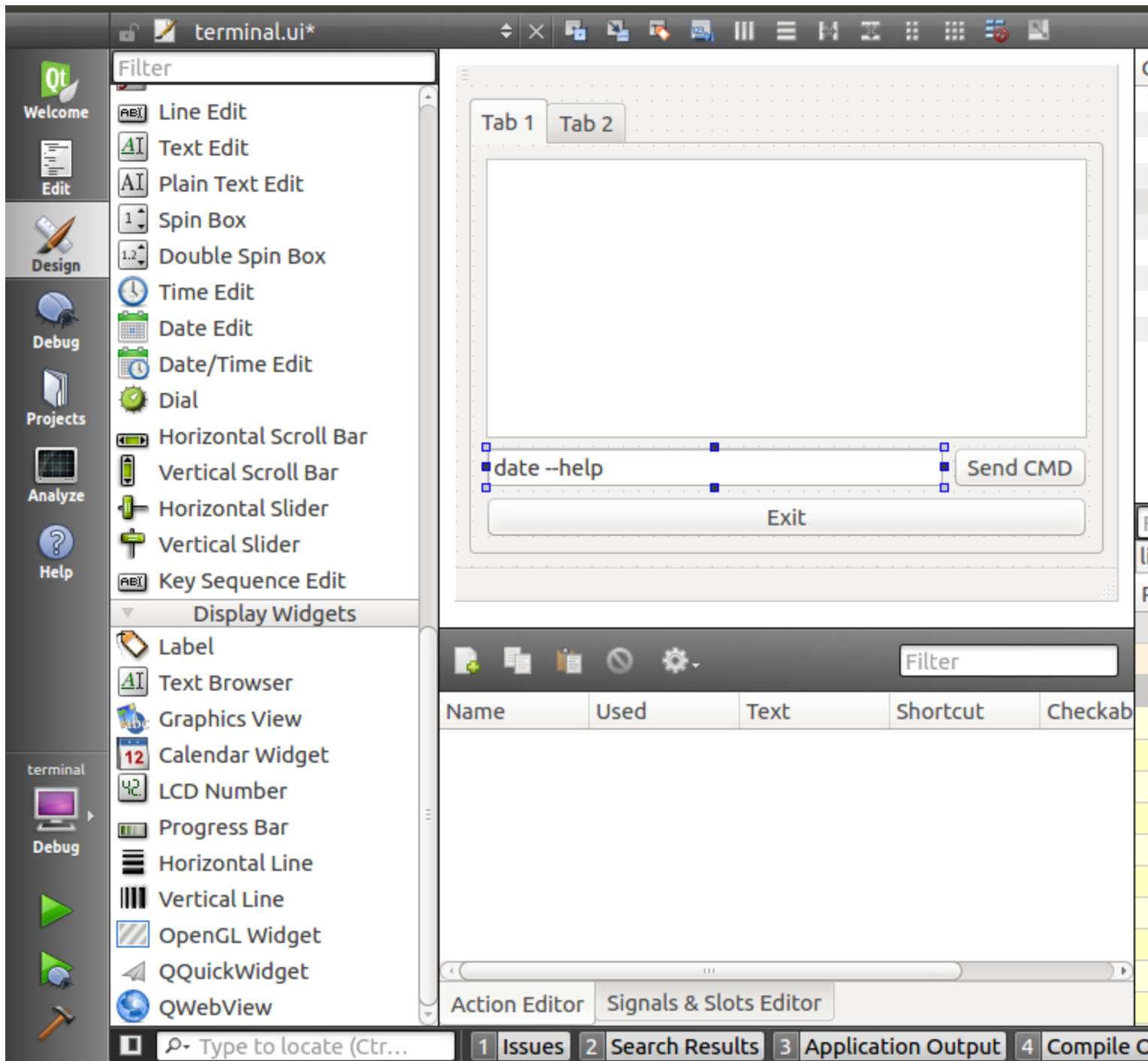
Type to locate (Ctrl...

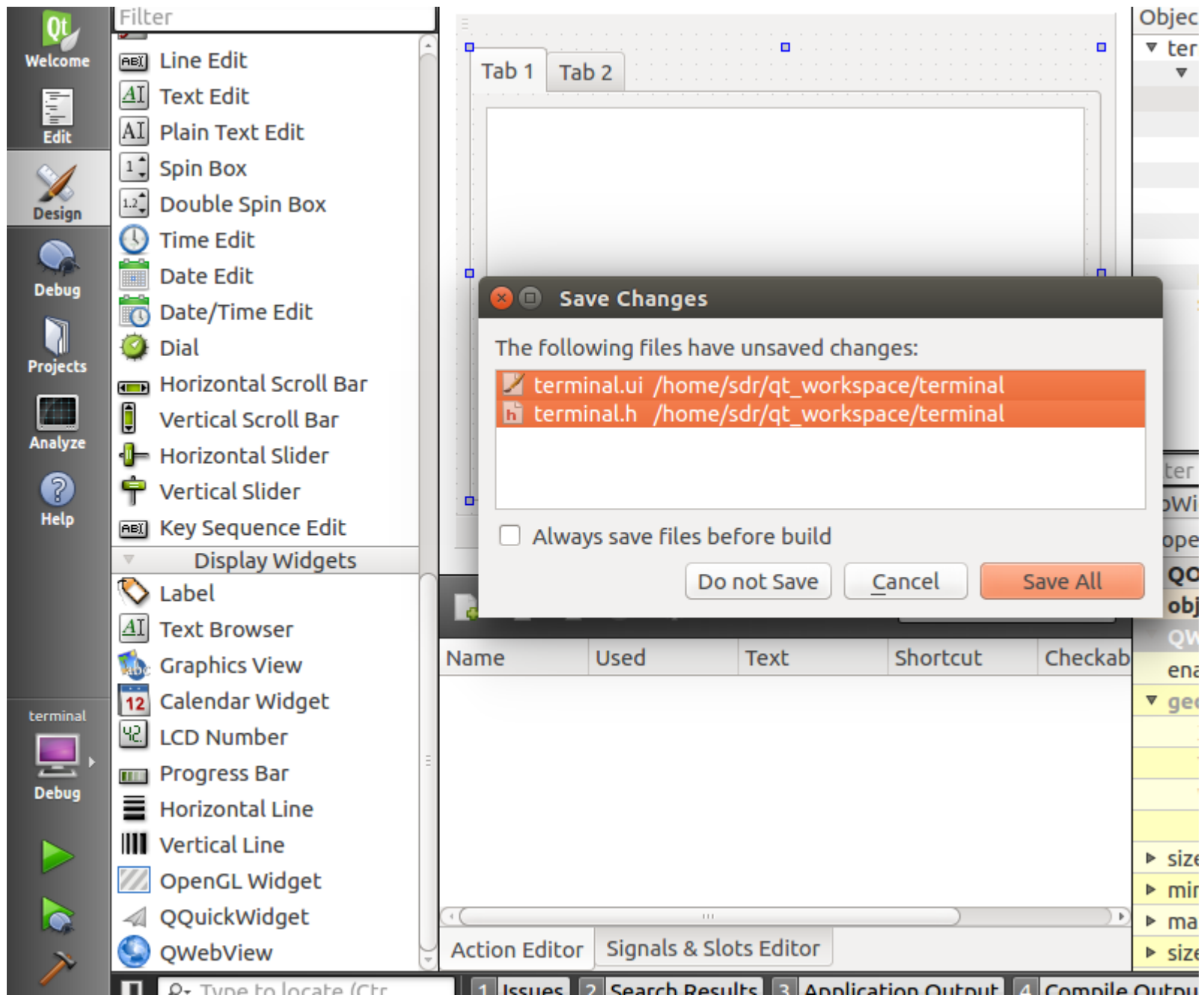
1 Issues

2 Search Results

3 Application Output

4 Compile Output





Mon Mar 26 03:28 PM

Matrix App Launcher v2 p1



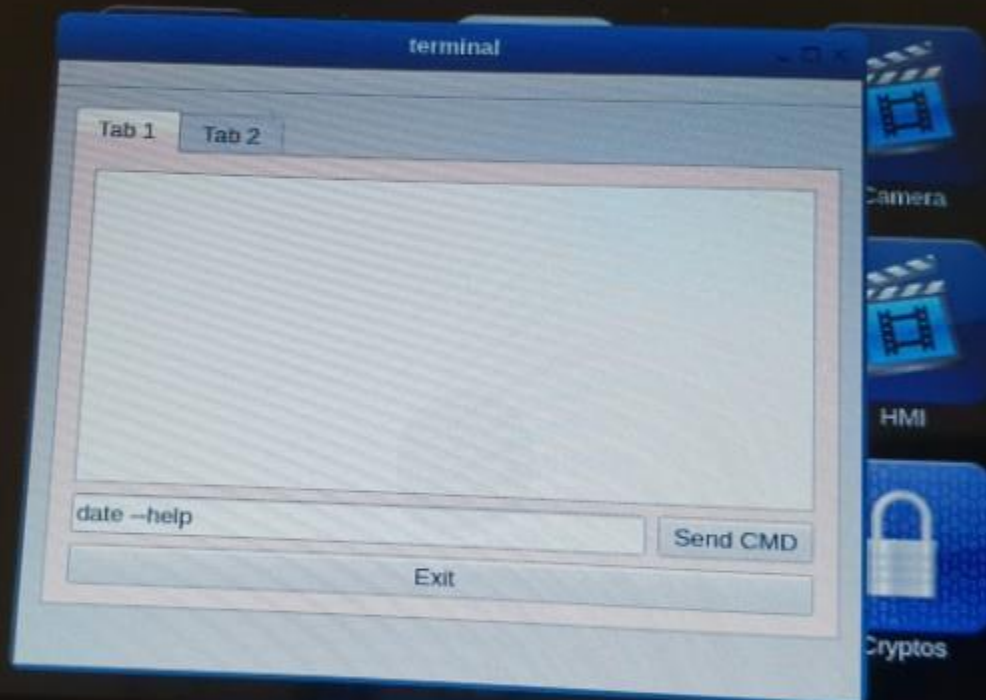
ARM



USB



Power



Camera



HMI



Cryptos



Matrix App Launcher v2 p1

terminal

Tab 1

Tab 2

BusyBox v1.24.1 (2018-03-26 15:12:18 EDT) multi-call binary.

Usage: date [OPTIONS] [+FMT] [TIME]

date --help

Send CMD

Exit



Camera



HMI



Cryptos