QRodSystems

0.0.0.1

Generated by Doxygen 1.9.1

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

RS::AbstractDataObject	??
QRS::MatrixDataObject	??
QRS::ScalarDataObject	
QRS::SurfaceDataObject	??
QRS::VectorDataObject	
RS::Array < T >	??
Dialog	
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MainWindow	
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Object	
QRS::Project	12
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View3D	??
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View3D	??
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2 Hierarchical Index

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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QRS::Array< T >	
Numerical matrix	??
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Manager to create objects of different types: scalars, vectors, matroces and surfaces	8
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Scalar data object	??
QRS::SurfaceDataObject	
Surface data object	??
QRS::VectorDataObject	
Vector data object	??
View3D	
A widget to represent the resulted rod system	??
en e	

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Chapter 3

File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

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Implementation of AbstractDataObject class	??
/home/qinterfly/Library/Projects/QRodSystems/src/core/abstractdataobject.h	
Declaration of AbstractDataObject class	??
/home/qinterfly/Library/Projects/QRodSystems/src/core/array.cpp	
Implementation of Matrix class	??
/home/qinterfly/Library/Projects/QRodSystems/src/core/array.h	
Declaration of Matrix class	??
/home/qinterfly/Library/Projects/QRodSystems/src/core/project.cpp	
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/home/qinterfly/Library/Projects/QRodSystems/src/main/mainwindow.cpp	
Implementation of MainWindow class	21
/home/qinterfly/Library/Projects/QRodSystems/src/main/mainwindow.h	
Declaration of MainWindow class	21
/home/qinterfly/Library/Projects/QRodSystems/src/main/view3d.cpp	
Implementation of View3D class	??
/home/qinterfly/Library/Projects/QRodSystems/src/main/view3d.h	
Declaration of View3D class	??
/home/qinterfly/Library/Projects/QRodSystems/src/managers/dataobjectsmanager.cpp	
Implementation of DataObjectsManager class	23
/home/qinterfly/Library/Projects/QRodSystems/src/managers/dataobjectsmanager.h	
Declaration of DataObjectsManager class	24

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Chapter 4

Class Documentation

4.1 QRS::AbstractDataObject Class Reference

Data object which is designied in the way to be represented in a table easily.

#include <abstractdataobject.h>

Inheritance diagram for QRS::AbstractDataObject:



Public Member Functions

- AbstractDataObject (DataObjectType type, const QString &name)
 - Base constructor.
- · uint getID () const
- virtual void addItem (DataValueType keyParameter)=0
- void removeItem (DataValueType keyParameter)

Remove an entity with the specified key.

Static Public Member Functions

• static uint numberObjects ()

Get a number of created data objects.

Protected Attributes

- const DataObjectType mType
- QString mName
- DataHolder mltems
- uint mID

Private Types

using DataHolder = std::unordered_map< DataKeyType, DataItemType >

Static Private Attributes

• static uint smNumObjects = 0

4.1.1 Detailed Description

Data object which is designied in the way to be represented in a table easily.

The documentation for this class was generated from the following files:

- /home/qinterfly/Library/Projects/QRodSystems/src/core/abstractdataobject.h
- /home/qinterfly/Library/Projects/QRodSystems/src/core/abstractdataobject.cpp

4.2 QRS::Array< T > Class Template Reference

Numerical matrix.

```
#include <array.h>
```

Public Types

• using IndexType = unsigned int

Public Member Functions

Array (IndexType numRows=1, IndexType numCols=1)

Private Attributes

- std::vector< T > mValues
- IndexType mNumRows
- IndexType mNumCols

4.2.1 Detailed Description

```
template<typename T> class QRS::Array< T>
```

Numerical matrix.

The documentation for this class was generated from the following files:

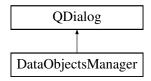
- /home/qinterfly/Library/Projects/QRodSystems/src/core/array.h
- /home/qinterfly/Library/Projects/QRodSystems/src/core/array.cpp

4.3 DataObjectsManager Class Reference

Manager to create objects of different types: scalars, vectors, matroces and surfaces.

#include <dataobjectsmanager.h>

Inheritance diagram for DataObjectsManager:



Public Member Functions

- DataObjectsManager (QRS::Project &project, QSettings &settings, QWidget *parent=nullptr)
- void closeEvent (QCloseEvent *) override

Save settings and delete handling widgets before closing the window.

Private Slots

· void apply ()

Apply all the changes made by a user.

· void addScalar ()

Private Member Functions

• void createContent ()

Create all the widgets.

ads::CDockWidget * createDataTablesWidget ()

Create a tabbed widget to interact with data tables.

• ads::CDockWidget * createDataObjectsWidget ()

Create an object to present all data objects.

ads::CDockWidget * createCodeWidget ()

Create a widget enables to code data objects.

QLayout * createDialogControls ()

Create dialog controls.

void restoreSettings ()

Restore settings from a file.

· void saveSettings ()

Save settings to a file.

Private Attributes

- Ui::DataObjectsManager * mpUi
- ads::CDockManager * mpDockManager
- QTabWidget * mpDataTables
- QRS::Project & mProject
- QSettings & mSettings

4.3.1 Detailed Description

Manager to create objects of different types: scalars, vectors, matroces and surfaces.

The documentation for this class was generated from the following files:

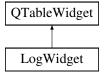
- /home/qinterfly/Library/Projects/QRodSystems/src/managers/dataobjectsmanager.h
- /home/qinterfly/Library/Projects/QRodSystems/src/managers/dataobjectsmanager.cpp

4.4 LogWidget Class Reference

Log all the messages sent.

```
#include <logwidget.h>
```

Inheritance diagram for LogWidget:



Public Member Functions

- LogWidget (QWidget *parent=nullptr)
- void log (QtMsgType messageType, const QString &message)

Represent a message sent.

4.4.1 Detailed Description

Log all the messages sent.

The documentation for this class was generated from the following files:

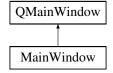
- /home/qinterfly/Library/Projects/QRodSystems/src/main/logwidget.h
- /home/qinterfly/Library/Projects/QRodSystems/src/main/logwidget.cpp

4.5 MainWindow Class Reference

The main window of the program.

#include <mainwindow.h>

Inheritance diagram for MainWindow:



Public Member Functions

MainWindow (QWidget *parent=nullptr)

Static Public Attributes

• static LogWidget * pLogger = nullptr

Private Slots

void saveSettings ()

Save the current view state.

• void restoreSettings ()

Restore a view state from a file.

void createDataObjectsManager ()

Show a manager for designing data objects.

void createRodPropertiesManager ()

Show a manager to set rod properties based on the created data objects.

void createRodConstructorManager ()

Show a manager to create a rod with assigned data properties.

Private Member Functions

· void initializeWindow ()

Set a state and geometry of MainWindow.

void createContent ()

Create all the widgets and corresponding actions.

ads::CDockWidget * createProjectHierarchyWidget ()

Create a widget to represent a project hierarchy.

ads::CDockWidget * createGLWidget ()

Create an OpenGL widget to render rods.

ads::CDockWidget * createLogWidget ()

Create a window for logging.

ads::CDockWidget * createPropertiesWidget ()

Create a window to modify properies of selected objercts.

void specifyMenuConnections ()

Set signals and slots for menu actions.

Private Attributes

- Ui::MainWindow * mpUi
- ads::CDockManager * mpDockManager
- QSharedPointer< QSettings > mpSettings
- DataObjectsManager * mpDataObjectsManager = nullptr
- QRS::Project mProject
- · QString mLastPath

4.5.1 Detailed Description

The main window of the program.

The documentation for this class was generated from the following files:

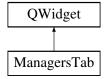
- /home/qinterfly/Library/Projects/QRodSystems/src/main/mainwindow.h
- /home/qinterfly/Library/Projects/QRodSystems/src/main/mainwindow.cpp

4.6 ManagersTab Class Reference

A toolbar consisted of object designers.

```
#include <controltabs.h>
```

Inheritance diagram for ManagersTab:



Signals

- void actionDataObjectsTriggered ()
- void actionRodPropertiesTriggered ()
- void actionRodConstructorTriggered ()

Public Member Functions

ManagersTab (QWidget *parent=nullptr)
 Managers tab constructor.

4.6.1 Detailed Description

A toolbar consisted of object designers.

The documentation for this class was generated from the following files:

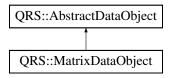
- /home/qinterfly/Library/Projects/QRodSystems/src/main/controltabs.h
- /home/qinterfly/Library/Projects/QRodSystems/src/main/controltabs.cpp

4.7 QRS::MatrixDataObject Class Reference

Matrix data object.

#include <abstractdataobject.h>

Inheritance diagram for QRS::MatrixDataObject:



Public Member Functions

MatrixDataObject (const QString &name)

Construct a matrix data object.

· void addItem (DataValueType keyParameter) override

Insert a new item into MatrixDataObject.

Additional Inherited Members

4.7.1 Detailed Description

Matrix data object.

The documentation for this class was generated from the following files:

- /home/qinterfly/Library/Projects/QRodSystems/src/core/abstractdataobject.h
- /home/qinterfly/Library/Projects/QRodSystems/src/core/abstractdataobject.cpp

4.8 QRS::Project Class Reference

Project class to interact with a created system of rods.

```
#include ject.h>
```

Inheritance diagram for QRS::Project:



Public Slots

void addDataObject (DataObjectType type)

Create a data object with the specified type.

Public Member Functions

• Project (QString name)

Construct a clean project with the user specified name.

• DataObjects & getDataObjects ()

Private Attributes

· const QUuid mID

Unique project identifier.

QString mName

Project name.

QString mFilePath

Path to a file where a project is stored.

uint mNumModified = 0

Number of modifications since last saving.

• DataObjects mDataObjects

Data objects.

4.8.1 Detailed Description

Project class to interact with a created system of rods.

The documentation for this class was generated from the following files:

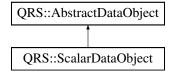
- /home/qinterfly/Library/Projects/QRodSystems/src/core/project.h
- /home/qinterfly/Library/Projects/QRodSystems/src/core/project.cpp

4.9 QRS::ScalarDataObject Class Reference

Scalar data object.

#include <abstractdataobject.h>

Inheritance diagram for QRS::ScalarDataObject:



Public Member Functions

ScalarDataObject (const QString &name)

Construct a scalar data object.

· void addItem (DataValueType keyParameter) override

Insert a new item into ScalarDataObject.

Additional Inherited Members

4.9.1 Detailed Description

Scalar data object.

The documentation for this class was generated from the following files:

- /home/qinterfly/Library/Projects/QRodSystems/src/core/abstractdataobject.h
- /home/qinterfly/Library/Projects/QRodSystems/src/core/abstractdataobject.cpp

4.10 QRS::SurfaceDataObject Class Reference

Surface data object.

#include <abstractdataobject.h>

Inheritance diagram for QRS::SurfaceDataObject:



Public Member Functions

• SurfaceDataObject (const QString &name)

Construct a surface data object.

void addItem (DataValueType keyParameter) override

Insert a new item into SurfaceDataObject.

Additional Inherited Members

4.10.1 Detailed Description

Surface data object.

The documentation for this class was generated from the following files:

- /home/qinterfly/Library/Projects/QRodSystems/src/core/abstractdataobject.h
- /home/qinterfly/Library/Projects/QRodSystems/src/core/abstractdataobject.cpp

4.11 QRS::VectorDataObject Class Reference

Vector data object.

#include <abstractdataobject.h>

Inheritance diagram for QRS::VectorDataObject:



Public Member Functions

VectorDataObject (const QString &name)

Construct a vector data object.

· void addItem (DataValueType keyParameter) override

Insert a new item into VectorDataObject.

Additional Inherited Members

4.11.1 Detailed Description

Vector data object.

The documentation for this class was generated from the following files:

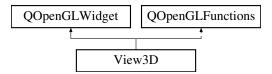
- /home/qinterfly/Library/Projects/QRodSystems/src/core/abstractdataobject.h
- /home/qinterfly/Library/Projects/QRodSystems/src/core/abstractdataobject.cpp

4.12 View3D Class Reference

A widget to represent the resulted rod system.

#include <view3d.h>

Inheritance diagram for View3D:



Public Member Functions

• View3D (QWidget *parent=nullptr)

Protected Member Functions

- void initializeGL () override

 Initialize a graphical scene.
- void paintGL () override Render its content.

Private Attributes

bool mCore

4.12.1 Detailed Description

A widget to represent the resulted rod system.

The documentation for this class was generated from the following files:

- /home/qinterfly/Library/Projects/QRodSystems/src/main/view3d.h
- /home/qinterfly/Library/Projects/QRodSystems/src/main/view3d.cpp

Chapter 5

File Documentation

5.1 /home/qinterfly/Library/Projects/QRod Systems/src/core/abstractdataobject.cpp File Reference

Implementation of AbstractDataObject class.

```
#include "abstractdataobject.h"
```

5.1.1 Detailed Description

Implementation of AbstractDataObject class.

Author

Pavel Lakiza

Date

March 2021

5.2 /home/qinterfly/Library/Projects/QRod→ Systems/src/core/abstractdataobject.h File Reference

Declaration of AbstractDataObject class.

```
#include <QString>
#include <unordered_map>
#include "array.h"
```

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Classes

class QRS::AbstractDataObject

Data object which is designied in the way to be represented in a table easily.

• class QRS::ScalarDataObject

Scalar data object.

• class QRS::VectorDataObject

Vector data object.

class QRS::MatrixDataObject

Matrix data object.

• class QRS::SurfaceDataObject

Surface data object.

Typedefs

- using QRS::DataValueType = double
- using **QRS::DataKeyType** = double
- using QRS::DataItemType = Array< DataValueType >

Enumerations

enum DataObjectType { kScalar , kVector , kMatrix , kSurface }

5.2.1 Detailed Description

Declaration of AbstractDataObject class.

Author

Pavel Lakiza

Date

March 2021

5.3 /home/qinterfly/Library/Projects/QRodSystems/src/core/array.cpp File Reference

Implementation of Matrix class.

```
#include "array.h"
```

5.3.1 Detailed Description

Implementation of Matrix class.

Author

Pavel Lakiza

Date

March 2021

5.4 /home/qinterfly/Library/Projects/QRodSystems/src/core/array.h File Reference

Declaration of Matrix class.

```
#include <vector>
```

Classes

class QRS::Array< T >
 Numerical matrix.

5.4.1 Detailed Description

Declaration of Matrix class.

Author

Pavel Lakiza

Date

March 2021

5.5 /home/qinterfly/Library/Projects/QRodSystems/src/core/project.cpp File Reference

Implementation of QRS::Project class.

```
#include "project.h"
```

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5.5.1 Detailed Description

Implementation of QRS::Project class.

Author

Pavel Lakiza

Date

March 2021

5.6 /home/qinterfly/Library/Projects/QRodSystems/src/core/project.h File Reference

Declaration of QRS::Project class.

```
#include <QObject>
#include <QUuid>
#include <memory>
#include <list>
#include "abstractdataobject.h"
#include "array.h"
```

Classes

class QRS::Project

Project class to interact with a created system of rods.

Typedefs

using QRS::DataObjects = std::list< std::shared ptr< AbstractDataObject > >

5.6.1 Detailed Description

Declaration of QRS::Project class.

Author

Pavel Lakiza

Date

5.7 /home/qinterfly/Library/Projects/QRod ← Systems/src/main/controltabs.cpp File Reference

Implementation of ControlTabs class.

```
#include <QLayout>
#include <QToolBar>
#include <QIcon>
#include "controltabs.h"
```

5.7.1 Detailed Description

Implementation of ControlTabs class.

Author

Pavel Lakiza

Date

March 2021

5.8 /home/qinterfly/Library/Projects/QRod Systems/src/main/controltabs.h File Reference

Declaration of ControlTabs class.

```
#include <QWidget>
```

Classes

class ManagersTab

A toolbar consisted of object designers.

5.8.1 Detailed Description

Declaration of ControlTabs class.

Author

Pavel Lakiza

Date

24 File Documentation

5.9 /home/qinterfly/Library/Projects/QRod Systems/src/main/logwidget.cpp File Reference

Implementation of LogWidget class.

```
#include <QHeaderView>
#include <QTime>
#include <QTimer>
#include "logwidget.h"
```

Enumerations

enum ColumnType { kTime , kType , kMessage }

5.9.1 Detailed Description

Implementation of LogWidget class.

Author

Pavel Lakiza

Date

March 2021

5.10 /home/qinterfly/Library/Projects/QRod Systems/src/main/logwidget.h File Reference

Declaration of LogWidget class.

```
#include <QTableWidget>
```

Classes

class LogWidget

Log all the messages sent.

5.10.1 Detailed Description

Declaration of LogWidget class.

Author

Pavel Lakiza

Date

5.11 /home/qinterfly/Library/Projects/QRodSystems/src/main/main.cpp File Reference

The startup function.

```
#include <QApplication>
#include "mainwindow.h"
```

Functions

- void throwMessage (QtMsgType type, const QMessageLogContext &, const QString &message)
 Log all the messages.
- int main (int argc, char *argv[])

 Entry point.

5.11.1 Detailed Description

The startup function.

Author

Pavel Lakiza

Date

March 2021

5.12 /home/qinterfly/Library/Projects/QRod Systems/src/main/mainwindow.cpp File Reference

Implementation of MainWindow class.

```
#include <QDesktopWidget>
#include <QToolBar>
#include <QTableWidget>
#include <QTreeView>
#include <QFileSystemModel>
#include <QTextEdit>
#include <QVBoxLayout>
#include <QSettings>
#include "DockManager.h"
#include "DockWidget.h"
#include "ads globals.h"
#include "mainwindow.h"
#include "ui_mainwindow.h"
#include "controltabs.h"
#include "view3d.h"
#include "logwidget.h"
#include "../managers/dataobjectsmanager.h"
```

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Functions

void moveToCenter (QWidget *pWidget)
 Helper function to situate widgets at the center of their parent widgets.

5.12.1 Detailed Description

Implementation of MainWindow class.

Author

Pavel Lakiza

Date

March 2021

5.13 /home/qinterfly/Library/Projects/QRod Systems/src/main/mainwindow.h File Reference

Declaration of MainWindow class.

```
#include <QMainWindow>
#include "logwidget.h"
#include "../core/project.h"
```

Classes

class MainWindow

The main window of the program.

5.13.1 Detailed Description

Declaration of MainWindow class.

Author

Pavel Lakiza

Date

5.14 /home/qinterfly/Library/Projects/QRodSystems/src/main/view3d.cpp File Reference

Implementation of View3D class.

```
#include <QOpenGLContext>
#include <QOpenGLPaintDevice>
#include <QPainter>
#include "view3d.h"
```

5.14.1 Detailed Description

Implementation of View3D class.

Author

Pavel Lakiza

Date

March 2021

5.15 /home/qinterfly/Library/Projects/QRodSystems/src/main/view3d.h File Reference

Declaration of View3D class.

```
#include <QOpenGLWidget>
#include <QOpenGLFunctions>
```

Classes

class View3D

A widget to represent the resulted rod system.

5.15.1 Detailed Description

Declaration of View3D class.

Author

Pavel Lakiza

Date

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5.16 /home/qinterfly/Library/Projects/QRod⊸ Systems/src/managers/dataobjectsmanager.cpp File Reference

Implementation of DataObjectsManager class.

```
#include <QSettings>
#include <QHBoxLayout>
#include <QToolBar>
#include <QListWidget>
#include <QTableView>
#include <QTextEdit>
#include <QPushButton>
#include <QSpacerItem>
#include "DockManager.h"
#include "dataobjectsmanager.h"
#include "ui_dataobjectsmanager.h"
#include "../core/project.h"
```

5.16.1 Detailed Description

Implementation of DataObjectsManager class.

Author

Pavel Lakiza

Date

March 2021

5.17 /home/qinterfly/Library/Projects/QRod⊸ Systems/src/managers/dataobjectsmanager.h File Reference

Declaration of DataObjectsManager class.

```
#include <QDialog>
```

Classes

• class DataObjectsManager

Manager to create objects of different types: scalars, vectors, matroces and surfaces.

5.17.1 Detailed Description

Declaration of DataObjectsManager class.

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