# ES

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# Chapter 1

# Hierarchical Index

## 1.1 Class Hierarchy

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


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Ficheiros . . . 11
Foto . . . 12
Pagina . . . 17
Pessoa . . . 22
QDialog
- Acerca . . . 7
- AlterarAlbum . . . 10
- AssociarWindow . . . 11
- ConfiguracaoNiveis . . . 11
- ImageViewer . . . 15
- NovaPagina . . . 16
- NovoAlbum . . . 17
- NovoPerfil . . . 17
- Perfil . . . 21
- Remover . . . 24
- SlideShow . . . 25
- SlideViewer . . . 25

QMainWindow
- MainWindow . . . 16

# Chapter 2

# Class Index

## 2.1 Class List

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


Acerca . . . 7
Album
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AlterarAlbum . . . 10
AssociarWindow . . . 11
ConfiguracaoNiveis . . . 11
Ficheiros
Used for saving this program's data permanently using binary files . . . 11
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Pagina
Used to represent a page . . . 17
Perfil . . . 21
Pessoa
Used to represent a person . . . 22
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SlideShow . . . 25
SlideViewer . . . 25

# Chapter 3

# File Index

## 3.1 File List

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


**acerca.h** . . . . . **??**
album.cpp . . . . . 27
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**alteraralbum.h** . . . . . **??**
**associarwindow.h** . . . . . **??**
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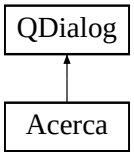
**remover.h** . . . . . **??**
**slideshow.h** . . . . . **??**
**slideviewer.h** . . . . . **??**

# Chapter 4

# Class Documentation

## 4.1 Acerca Class Reference

Inheritance diagram for Acerca:




### Public Member Functions

- **Acerca** (QWidget ∗parent=0)

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

- acerca.h
- acerca.cpp

## 4.2 Album Class Reference

The Album class is used to represent albums.

```
#include <album.h>
```

### Public Member Functions

- Album (QString, QString, QString, QString)

  *Album::Album is one of the Album class constructor.*
- Album (QString, QString, QString, QString, QDate, QDate)

  *Album::Album is one of the Album class constructor.*
- QString getNome ()

  *Album::getNome returns the album's name.*
- QString getPasta ()

  *Album::getPasta returns the page's directory.*
- QString getDescricao ()

  *Album::getDescricao returns the album's description.*
- QString getTipo ()

  *Album::getTipo returns the type of page given to the album.*
- QDate getDataInicioAlbum ()

  *Album::getDataInicioAlbum returns the starting date of the album.*
- QDate getDataFimAlbum ()

  *Album::getDataFimAlbum returns the ending date of the album.*
- void setNome (QString)

  *Album::setNome sets a new name for the album.*
- void setPasta (QString)

  *Album::setPasta sets the album's folder name.*
- void setDescricao (QString)

  *Album::setDescricao sets the description of the album.*
- void **setDataInicioAlbum** (QDate)
- void **setDataFimAlbum** (QDate)

### Public Attributes

- QList< Pagina * > **ListaPagina**
- QList< Pessoa * > **ListaPessoas**

## 4.2.1 Detailed Description

The Album class is used to represent albums.

## 4.2.2 Constructor & Destructor Documentation

#### 4.2.2.1 Album() [1/2]

```
Album::Album (
            QString nome,
            QString pasta,
            QString tipo,
            QString descricao )
```

Album::Album is one of the Album class constructor.

**Parameters**

| | |
|---|---|
| *nome* | is the Album's name. |
| *pasta* | is the name of the folder that contains the album. |
| *tipo* | is the type of page. |
| *descricao* | is the description of the album. |

#### 4.2.2.2 Album() [2/2]

```
Album::Album (
            QString nome,
            QString pasta,
            QString tipo,
            QString descricao,
            QDate dataInicio,
            QDate dataFim )
```

Album::Album is one of the Album class constructor.

**Parameters**

| | |
|---|---|
| *nome* | is the Album's name. |
| *pasta* | is the name of the folder that contains the album. |
| *tipo* | is the type of page. |
| *descricao* | is the description of the album. |
| *dataInicio* | is the starting date of the album |
| *dataFim* | is the ending date of the album |

### 4.2.3 Member Function Documentation

#### 4.2.3.1 setDescricao()

```
void Album::setDescricao (
            QString novoNome )
```

Album::setDescricao sets the description of the album.

**Parameters**

| | |
|---|---|
| *novoNome* | is the description to be given to the album |

#### 4.2.3.2 setNome()

```
void Album::setNome (
            QString novoNome )
```

Album::setNome sets a new name for the album.

**Parameters**

| | |
|---|---|
| *novoNome* | is the name to be given to the album |

#### 4.2.3.3 setPasta()

```
void Album::setPasta (
            QString novoNome )
```

Album::setPasta sets the album's folder name.

**Parameters**

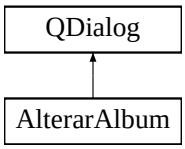
| | |
|---|---|
| *novoNome* | is the name to be given to the folder |

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

- album.h
- album.cpp

## 4.3 AlterarAlbum Class Reference

Inheritance diagram for AlterarAlbum:




### Public Member Functions

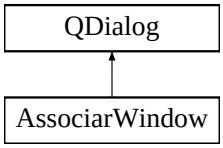
- **AlterarAlbum** (int, QWidget *parent=0)

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

- alteraralbum.h
- ateraralbum.cpp

## 4.4 AssociarWindow Class Reference

Inheritance diagram for AssociarWindow:




### Public Member Functions

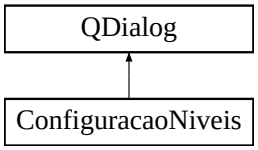
- **AssociarWindow** (int i, int j, QList< int > aux, QList< int > a, QList< int > b, QList< int > c, QWidget *parent=0)

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

- associarwindow.h
- associarwindow.cpp

## 4.5 ConfiguracaoNiveis Class Reference

Inheritance diagram for ConfiguracaoNiveis:




### Public Member Functions

- **ConfiguracaoNiveis** (int i, QString dir, QWidget *parent=0)

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

- configuracaoniveis.h
- configuracaoniveis.cpp

## 4.6 Ficheiros Class Reference

The Ficheiros class is used for saving this program's data permanently using binary files.

```
#include <ficheiros.h>
```

### Public Member Functions

- Ficheiros ()

  *Ficheiros::Ficheiros is the constructor by default.*
- void inicializar (QList< Album *> &, QList< Pessoa *> &)

  *Ficheiros::inicializar reads all initial data from files.*
- void escreverPessoas (QList< Pessoa *> &)

  *Ficheiros::escreverPessoas saves information about a list of people.*
- void escreverAlbuns (QList< Album *> &)

  *Ficheiros::escreverAlbuns saves information about the list of albums.*
- void escreverPaginas (QList< Album *> &)

  *Ficheiros::escreverPaginas saves information about a list of pages.*
- void escreverFotos (QList< Album *> &, int, int)

  *Ficheiros::escreverPaginas saves information about a list of photographs.*
- void escreverAssociacoes (QList< Album *> &, QList< Pessoa *> &)

  *Ficheiros::escreverAssociacoes saves a list of people that are associated to one or more photographs.*
- void inicializarAssociacoes (QList< Album *> &, QList< Pessoa *> &)

  *Ficheiros::inicializarAssociacoes reads a list of people that are associated to one or more photographs.*

#### 4.6.1 Detailed Description

The Ficheiros class is used for saving this program's data permanently using binary files.

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

- ficheiros.h
- ficheiros.cpp

## 4.7 Foto Class Reference

The Foto class is used represent a photo.

`#include <foto.h>`

### Public Member Functions

- Foto (QString, QString, QString, QString, QFileInfo)

  *Foto::Foto is one of the Foto class constructor.*
- Foto (QString, QString, QString, QString)

  *Foto::Foto is one of the Foto class constructor.*
- void setNomeFoto (QString)

  *Foto::setNomeFoto sets the name of the photograph.*
- void setDataFoto (QString)

  *Foto::setDataFoto sets the date of the photograph.*
- void setDirectorioFoto (QString)

  *Foto::setDirectorioFoto sets the current directory of the photograph.*
- void setFileInfo (QFileInfo)

  *Foto::setFileInfo sets the fileInfo of the photograph.*

- QString getNomeFoto ()

  *Foto::getNomeFoto returns the name of the photograph.*
- QString getDataFoto ()

  *Foto::getDataFoto returns the date of the photograph in QString format.*
- QPixmap **getPixFoto** ()
- QFileInfo getFileInfo ()

  *Foto::getFileInfo returns the fileInfo of the photograph.*
- QString getResolucaoFoto ()

  *Foto::getResolucaoFoto returns the resolution of the photograph in QString format.*
- QString getDirectorioFoto ()

  *Foto::getDirectorioFoto returns the current directory of the photograph.*

## Public Attributes

- QList< Pessoa * > **ListaPessoas**

### 4.7.1 Detailed Description

The Foto class is used represent a photo.

### 4.7.2 Constructor & Destructor Documentation

#### 4.7.2.1 Foto() [1/2]

```
Foto::Foto (
            QString nome,
            QString directorio,
            QString resolucao,
            QString data,
            QFileInfo info )
```

Foto::Foto is one of the Foto class constructor.

**Parameters**

| | |
|---|---|
| *nome* | is the Photograph's name. |
| *resolucao* | is resolution of the photograph |
| *data* | is the photograh's date of creation |
| *pixmap* | is the Pixmap of the photograph |
| *info* | contains information about the file that contains the photograph |

#### 4.7.2.2 Foto() [2/2]

```
Foto::Foto (
            QString nome,
            QString directorio,
            QString resolucao,
            QString data )
```

Foto::Foto is one of the Foto class constructor.

**Parameters**

| | |
|---|---|
| *nome* | is the Photograph's name. |
| *resolucao* | is resolution of the photograph |
| *data* | is the photograh's date of creation |

### 4.7.3 Member Function Documentation

#### 4.7.3.1 setDataFoto()

```
void Foto::setDataFoto (
            QString data )
```

Foto::setDataFoto sets the date of the photograph.

**Parameters**

| | |
|---|---|
| *data* | is the date to be given to the photograph |

#### 4.7.3.2 setDirectorioFoto()

```
void Foto::setDirectorioFoto (
            QString novoDirectorio )
```

Foto::setDirectorioFoto sets the current directory of the photograph.

**Parameters**

| | |
|---|---|
| *novoDiretorio* | is the new directory to be given to the photograph |

#### 4.7.3.3 setFileInfo()

```
void Foto::setFileInfo (
            QFileInfo info )
```

Foto::setFileInfo sets the fileInfo of the photograph.

**Parameters**

| | |
|---|---|
| *info* | is the QFileinfo to be given to the photograph |

#### 4.7.3.4 setNomeFoto()

```
void Foto::setNomeFoto (
            QString nome )
```

Foto::setNomeFoto sets the name of the photograph.

**Parameters**

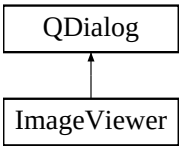
| | |
|---|---|
| *nome* | is the name to be given to the photograph |

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

- foto.h
- foto.cpp

## 4.8 ImageViewer Class Reference

Inheritance diagram for ImageViewer:




### Public Member Functions

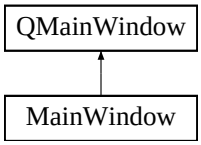
- **ImageViewer** (QString loc, QWidget ∗parent=0)

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

- imageviewer.h
- imageviewer.cpp

## 4.9 MainWindow Class Reference

Inheritance diagram for MainWindow:




### Public Member Functions

- MainWindow (QWidget ∗parent=0)

  *MainWindow::MainWindow is the defaut constructor of this class.*
- ∼MainWindow ()

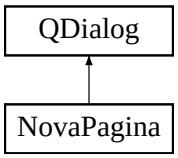
  *MainWindow::∼MainWindow is the default destructor of this class.*

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

- mainwindow.h
- mainwindow.cpp

## 4.10 NovaPagina Class Reference

Inheritance diagram for NovaPagina:




### Public Member Functions

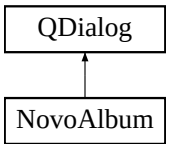
- **NovaPagina** (int i, QWidget ∗parent=0)

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

- novapagina.h
- novapagina.cpp

## 4.11 NovoAlbum Class Reference

Inheritance diagram for NovoAlbum:




### Public Member Functions

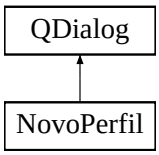
- **NovoAlbum** (QWidget ∗parent=0)

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

- novoalbum.h
- novoalbum.cpp

## 4.12 NovoPerfil Class Reference

Inheritance diagram for NovoPerfil:




### Public Member Functions

- **NovoPerfil** (QWidget ∗parent=0)

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

- novoperfil.h
- novoperfil.cpp

## 4.13 Pagina Class Reference

The Pagina class is used to represent a page.

```
#include <pagina.h>
```

### Public Member Functions

- Pagina (QString, QString, QString, QString)

  *Pagina::Pagina is one of the Foto class constructor.*
- Pagina (QString, QString, QString, QString, QString, QDate)

  *Pagina::Pagina is one of the Foto class constructor.*
- Pagina (QString, QString, QString, QString, QDate, QDate)

  *Pagina::Pagina is one of the Foto class constructor.*
- Pagina (QString, QString, QString, QString, QString, QDate, QDate, QDate)

  *Pagina::Pagina is one of the Foto class constructor.*
- void **adicionarFoto** ()
- void **removerFoto** ()
- bool **associarPessoaPagina** ()
- bool **eliminarPessoaPagina** ()
- QString getNomePagina ()

  *Pagina::getNomePagina returns the name of the page.*
- QDate getDataInicioPagina ()

  *Pagina::getDataInicioPagina returns the initial date of the page.*
- QDate getDataFimPagina ()

  *Pagina::getDataFimPagina returns the ending date of the page.*
- QString **getPessoaPagina** ()
- void **pesquisarPagina** ()
- QString getPastaPagina ()

  *Pagina::getPastaPagina returns the directory of the page.*
- QString getTipoDePagina ()

  *Pagina::getTipoDePagina returns the type of the page.*
- QString getDescricaoPagina ()

  *Pagina::getDescricaoPagina returns the description of the page.*
- QString getTipoDeFesta ()

  *Pagina::getTipoDeFesta returns the type of party of the page.*
- QDate getDataPagina ()

  *Pagina::getDataPagina returns the date of the page.*
- void setPasta (QString)

  *Pagina::setDataPagina sets the date of the page.*
- void setDataInicial (QDate)

  *Pagina::setDataInicial sets the inicial date of the page.*
- void setDataFinal (QDate)

  *Pagina::setDataFinal sets the final date of the page.*

### Public Attributes

- QList< Foto * > **ListaFotos**
- QList< Pessoa * > **ListaPessoas**

#### 4.13.1 Detailed Description

The Pagina class is used to represent a page.

### 4.13.2 Constructor & Destructor Documentation

#### 4.13.2.1 Pagina() [1/4]

```
Pagina::Pagina (
            QString nome,
            QString pasta,
            QString descricao,
            QString tipo )
```

Pagina::Pagina is one of the Foto class constructor.

**Parameters**

| | |
|---|---|
| *nome* | is the Page's name. |
| *pasta* | is the Page's directory. |
| *descricao* | is the page's description |
| *tipo* | is the type of the page |

#### 4.13.2.2 Pagina() [2/4]

```
Pagina::Pagina (
            QString nome,
            QString pasta,
            QString descricao,
            QString tipo,
            QString tipoDeF,
            QDate data )
```

Pagina::Pagina is one of the Foto class constructor.

**Parameters**

| | |
|---|---|
| *nome* | is the Page's name. |
| *pasta* | is the Page's directory. |
| *descricao* | is the page's description |
| *tipo* | is the type of the page |
| *tipoDeF* | is the type of party |
| *data* | is the date of the page |

#### 4.13.2.3 Pagina() [3/4]

```
Pagina::Pagina (
```

```
            QString nome,
            QString pasta,
            QString descricao,
            QString tipo,
            QDate dataI,
            QDate dataF )
```

Pagina::Pagina is one of the Foto class constructor.

**Parameters**

| | |
|---|---|
| *nome* | is the Page's name. |
| *pasta* | is the Page's directory. |
| *descricao* | is the page's description |
| *tipo* | is the type of the page |
| *dataI* | is the initial date of the page |
| *dataF* | is the ending date of the page |

#### 4.13.2.4 Pagina() [4/4]

```
Pagina::Pagina (
            QString nome,
            QString pasta,
            QString tipo,
            QString tipoDeF,
            QString descricao,
            QDate dataInicio,
            QDate dataFim,
            QDate dataP )
```

Pagina::Pagina is one of the Foto class constructor.

**Parameters**

| | |
|---|---|
| *nome* | is the Page's name. |
| *pasta* | is the Page's directory. |
| *tipo* | is the type of the page |
| *tipoDeF* | is the type of the page |
| *descricao* | is the page's description |
| *dataInicio* | is the initial date of the page |
| *dataFim* | is the ending date of the page |
| *dataP* | is the date of the page |

### 4.13.3 Member Function Documentation

#### 4.13.3.1 setDataFinal()

```
void Pagina::setDataFinal (
            QDate dataFinal )
```

Pagina::setDataFinal sets the final date of the page.

**Parameters**

| | |
|---|---|
| *dataFinal* | is the date to be given to the page |

#### 4.13.3.2 setDataInicial()

```
void Pagina::setDataInicial (
            QDate dataInicial )
```

Pagina::setDataInicial sets the inicial date of the page.

**Parameters**

| | |
|---|---|
| *dataInicial* | e the date to be given to the page |

#### 4.13.3.3 setPasta()

```
void Pagina::setPasta (
            QString novonome )
```

Pagina::setDataPagina sets the date of the page.

**Parameters**

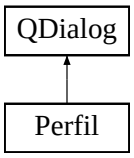
| | |
|---|---|
| *novonome* | is the new date to be given to the page |

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

- pagina.h
- pagina.cpp

## 4.14 Perfil Class Reference

Inheritance diagram for Perfil:




### Public Member Functions

- **Perfil** (int i, QWidget *parent=0)

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

- perfil.h
- perfil.cpp

## 4.15 Pessoa Class Reference

The Pessoa class is used to represent a person.

`#include <pessoa.h>`

### Public Member Functions

- Pessoa (QString, QDate, QString, QString)

  *Pessoa::Pessoa is the default constructor of the class Pessoa.*
- QString getNomePessoa ()

  *Pessoa::getNomePessoa returns the name of the person.*
- QString getGenero ()

  *Pessoa::getGenero returns the gender of the person.*
- QDate getDataNascimento ()

  *Pessoa::getDataNascimento returns the birthdate of the person.*
- QString getRelacao ()

  *Pessoa::getRelacao returns the relation between a person and the user.*
- void setNomePessoa (QString)

  *Pessoa::setNomePessoa sets the name of the person.*
- void setGenero (QString)

  *Pessoa::setGenero sets the gender of the person.*
- void setDataNascimento (QDate)

  *Pessoa::setDataNascimento sets the birthdate of the person.*
- void setRelacao (QString)

  *Pessoa::setRelacao sets the relation between a person and the user.*

### 4.15.1 Detailed Description

The Pessoa class is used to represent a person.

### 4.15.2 Constructor & Destructor Documentation

#### 4.15.2.1 Pessoa()

```
Pessoa::Pessoa (
            QString nome,
            QDate data,
            QString genero,
            QString relacao )
```

Pessoa::Pessoa is the default constructor of the class Pessoa.

**Parameters**

| | |
|---|---|
| *nome* | is the person's name. |
| *data* | is the person's birthdate |
| *genero* | is the person's gender |
| *relacao* | is the relation between the person and the user |

### 4.15.3 Member Function Documentation

#### 4.15.3.1 setDataNascimento()

```
void Pessoa::setDataNascimento (
            QDate data )
```

Pessoa::setDataNascimento sets the birthdate of the person.

**Parameters**

| | |
|---|---|
| *data* | is the birthdate to be given to the person |

#### 4.15.3.2 setGenero()

```
void Pessoa::setGenero (
            QString genero )
```

Pessoa::setGenero sets the gender of the person.

**Parameters**

| | |
|---|---|
| *genero* | is the gender to be given to the person |

#### 4.15.3.3 setNomePessoa()

```
void Pessoa::setNomePessoa (
            QString nome )
```

Pessoa::setNomePessoa sets the name of the person.

**Parameters**

| | |
|---|---|
| *nome* | is the name to be given to the person |

#### 4.15.3.4 setRelacao()

```
void Pessoa::setRelacao (
            QString relacao )
```

Pessoa::setRelacao sets the relation between a person and the user.

**Parameters**

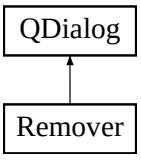
| | |
|---|---|
| *relacao* | is the type of relation |

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

- pessoa.h
- pessoa.cpp

## 4.16 Remover Class Reference

Inheritance diagram for Remover:



### Public Member Functions

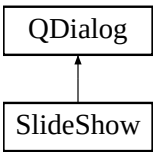
- **Remover** (QWidget *parent=0)

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

- remover.h
- remover.cpp

## 4.17 SlideShow Class Reference

Inheritance diagram for SlideShow:




### Public Member Functions

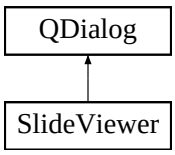
- **SlideShow** (Pagina *pagina, QWidget *parent=0)
- **SlideShow** (Album *album, QWidget *parent=0)

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

- slideshow.h
- slideshow.cpp

## 4.18 SlideViewer Class Reference

Inheritance diagram for SlideViewer:




### Public Member Functions

- **SlideViewer** (QString ficheiro, Pagina *atual, int intervalo, QWidget *parent=0)
- **SlideViewer** (QString ficheiro, Album *atual2, int intervalo, QWidget *parent=0)
- **SlideViewer** (QString ficheiro, int intervalo, QWidget *parent=0)
- void **showEvent** (QShowEvent *)
- void **closeEvent** (QCloseEvent *event)
- void **resizeEvent** (QResizeEvent *event)

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

- slideviewer.h
- slideviewer.cpp

# Chapter 5

# File Documentation

## 5.1 album.cpp File Reference

```
#include "album.h"
```

### 5.1.1 Detailed Description

Definitions of the methods of the class Album

## 5.2 album.h File Reference

```
#include <QString>
#include <QDate>
#include "pagina.h"
#include "pessoa.h"
```

### Classes

- class Album

  *The Album class is used to represent albums.*

### 5.2.1 Detailed Description

Definitions of the class Album

## 5.3 ficheiros.cpp File Reference

```
#include "ficheiros.h"
```

### 5.3.1 Detailed Description

Definitions of the methods of the class Ficheiros

## 5.4 ficheiros.h File Reference

```
#include <QApplication>
#include <QObject>
#include <QString>
#include <QDataStream>
#include <QFile>
#include <QDebug>
#include <QPixmap>
#include <QDir>
#include "album.h"
#include "pagina.h"
#include "pessoa.h"
```

### Classes

- class Ficheiros

  *The Ficheiros class is used for saving this program's data permanently using binary files.*

### Variables

- QList< Album * > **ListaAlbum**

### 5.4.1 Detailed Description

Definitions of the class Ficheiros

## 5.5 foto.cpp File Reference

```
#include "foto.h"
```

### 5.5.1 Detailed Description

Definitions of the methods of the class Foto

## 5.6 foto.h File Reference

```
#include <QString>
#include <QDate>
#include <QFileInfo>
#include <QPixmap>
#include <QDebug>
#include "pessoa.h"
```

### Classes

- class Foto

  *The Foto class is used represent a photo.*

### 5.6.1 Detailed Description

Definitions of the class Foto

## 5.7 pagina.cpp File Reference

```
#include "pagina.h"
```

### 5.7.1 Detailed Description

Definitions of the methods of the class Pagina

## 5.8 pagina.h File Reference

```
#include <QString>
#include <QDate>
#include "foto.h"
#include "pessoa.h"
```

### Classes

- class Pagina

  *The Pagina class is used to represent a page.*

### 5.8.1 Detailed Description

Definitions of the class Pagina

## 5.9 pessoa.cpp File Reference

```
#include "pessoa.h"
```

### 5.9.1 Detailed Description

Definitions of the methods of the class Pessoa

## 5.10 pessoa.h File Reference

```
#include <QApplication>
#include <QObject>
#include <QString>
#include <QDateTime>
#include <QList>
#include <math.h>
#include <QDataStream>
#include <QTextStream>
#include <QDebug>
```

### Classes

- class Pessoa

  *The Pessoa class is used to represent a person.*

### 5.10.1 Detailed Description

Definitions of the class Pessoa

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