

INE5408 - Trabalho01

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Chapter 1

Namespace Index

1.1 Namespace List

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

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Chapter 2

Class Index

2.1 Class List

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

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Chapter 3

Namespace Documentation

3.1 structures Namespace Reference

Structures namespace

Classes

- class [LinkedStack](#)
Main class.

3.1.1 Detailed Description

Simple class to wrap LinkedStack

Chapter 4

Class Documentation

4.1 structures::LinkedList< T > Class Template Reference

Main class.

```
#include <LinkedList.h>
```

Public Member Functions

- [LinkedList](#) ()=default
Default constructor.
- [~LinkedList](#) ()=default
Destructor.
- void [clear](#) ()
Clear stack.
- void [push](#) (const T &data)
Push element on top of stack.
- T [pop](#) ()
Pop element on the top of stack.
- T & [top](#) () const
Return reference to the top element.
- bool [empty](#) () const
Check if stack is empty.
- int [size](#) () const
Return size of the list.

4.1.1 Detailed Description

```
template<typename T>  
class structures::LinkedList< T >
```

Main class.

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

- `libs_src/LinkedList.h`

4.2 XMLObject Class Reference

xml Object

```
#include <XMLObject.h>
```

Public Member Functions

- [XMLObject](#) (const std::string &input_file)
Move constructor.
- [~XMLObject](#) ()
Destructor.
- bool [is_opened](#) ()
Check if object was correctly opened.
- std::vector< std::vector< std::vector< char > > > [data](#) ()
Get content of data tags, organized in vectors.
- std::vector< std::string > [names](#) ()
Get content of name tags, organized in a vector.
- void [print_data](#) ()
Print data in std::cout.

4.2.1 Detailed Description

xml Object

Class to describe XML object, including data in tags and validation of xml files

4.2.2 Constructor & Destructor Documentation

4.2.2.1 XMLObject()

```
XMLObject::XMLObject (
    const std::string & input_file ) [explicit]
```

Move constructor.

Constructor with input file

Constructor with input file, initiate every attributte accordingly to input file, also checks if the file is a valid xml.

4.2.2.2 ~XMLObject()

```
XMLObject::~XMLObject ( )
```

Destructor.

Destructor will close input stream

4.2.3 Member Function Documentation

4.2.3.1 data()

```
std::vector< std::vector< std::vector< char > > > XMLObject::data ( )
```

Get content of data tags, organized in vectors.

Returns

content of data tags organized by tag, ordered by lecture then, by line read in file, each character in one position of vector.

4.2.3.2 is_opened()

```
bool XMLObject::is_opened ( )
```

Check if object was correctly opened.

Returns

true if file was validated and attributes organized, false otherwise

4.2.3.3 names()

```
std::vector< std::string > XMLObject::names ( )
```

Get content of name tags, organized in a vector.

Returns

content of data tags organized by tag, ordered by lecture then, by line read in file, each character in one position of vector.

4.2.3.4 print_data()

```
void XMLObject::print_data ( )
```

Print data in std::cout.

For debugging process, prints the data stored, formatted

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

- libs_src/XMLObject.h
- libs_src/XMLObject.cpp

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