

Practice 4

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

| | |
|-----------------|---|
| User | 8 |
| Admin | 7 |

Chapter 2

Class Index

2.1 Class List

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

| | |
|---------------------------------|-------------------|
| Admin | 7 |
| User | 8 |

Chapter 3

File Index

3.1 File List

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

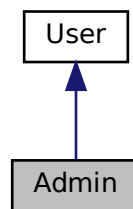
| | |
|--|----|
| include/ Admin.h | |
| Header file of Admin.cpp | 15 |
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| Header file of User.cpp | 17 |
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Chapter 4

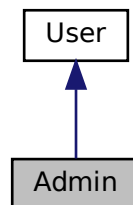
Class Documentation

4.1 Admin Class Reference

Inheritance diagram for Admin:



Collaboration diagram for Admin:



Public Member Functions

- [Admin](#) (std::string number="00000", std::string nif="000000000", std::string name="default")
Creates a new [Admin](#) object.

Additional Inherited Members

4.1.1 Constructor & Destructor Documentation

4.1.1.1 Admin()

```
Admin::Admin (
    std::string employeeNumber = "00000",
    std::string NIF = "000000000",
    std::string name = "default" )
```

Creates a new [Admin](#) object.

Parameters

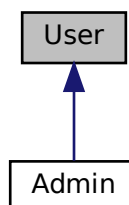
| | |
|-----------------------|--|
| <i>employeeNumber</i> | |
| <i>NIF</i> | |
| <i>name</i> | |

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

- include/[Admin.h](#)
- src/[Admin.cpp](#)

4.2 User Class Reference

Inheritance diagram for User:



Public Member Functions

- [User](#) (std::string number="00000", std::string nif="000000000", std::string name="default")

- Create a new [User](#).
- bool [isSameNIF](#) (std::string)
Check if the user has the input NIF.
- bool [isSameEmployeeNumber](#) (std::string)
Check if the user has the input employee number.
- std::string [getName](#) ()
Returns the user name.
- void [addTimestamp](#) ()
Set the timestamp.
- std::string [getTimestamp](#) ()
Returns the timestamp.
- bool [hasAdminPermission](#) ()
Returns the user permissions.
- bool **operator**< (const [User](#) &) const
- bool **operator**== (const [User](#) &) const

Protected Member Functions

- void [setNIF](#) (std::string)
Set the user NIF.
- void [setEmployeeNumber](#) (std::string)
Set the user employee number.

Protected Attributes

- std::string **name**
- std::string **NIF**
- std::string **employeeNumber**
- std::string **lastLogTime**
- bool **adminPermission**

Friends

- std::ostream & **operator**<< (std::ostream &, const [User](#) &)

4.2.1 Constructor & Destructor Documentation

4.2.1.1 User()

```
User::User (  
    std::string employeeNumber = "00000",  
    std::string NIF = "00000000",  
    std::string name = "default" )
```

Create a new [User](#).

Parameters

| | |
|-----------------------|--|
| <i>employeeNumber</i> | |
| <i>NIF</i> | |
| <i>name</i> | |

4.2.2 Member Function Documentation

4.2.2.1 addTimestamp()

```
void User::addTimestamp ( )
```

Set the timestamp.

4.2.2.2 getName()

```
std::string User::getName ( )
```

Returns the user name.

Returns

std::string [User](#) name

4.2.2.3 getTimestamp()

```
std::string User::getTimestamp ( )
```

Returns the timestamp.

Returns

std::string Timestamp

4.2.2.4 hasAdminPermission()

```
bool User::hasAdminPermission ( )
```

Returns the user permissions.

Returns

true = has admin permissions

false = does not have admin permissions

4.2.2.5 isSameEmployeeNumber()

```
bool User::isSameEmployeeNumber (
    std::string employeeNumber )
```

Check if the user has the input employee number.

Parameters

| | |
|-----------------------|--|
| <i>employeeNumber</i> | |
|-----------------------|--|

Returns

true = is the same employee number
false = is not the same employee number

4.2.2.6 isSameNIF()

```
bool User::isSameNIF (
    std::string NIF )
```

Check if the user has the input NIF.

Parameters

| | |
|------------------------|--|
| $N \leftrightarrow IF$ | |
|------------------------|--|

Returns

true = is the same NIF
false = is not the same NIF

4.2.2.7 setEmployeeNumber()

```
void User::setEmployeeNumber (
    std::string employeeNumber ) [protected]
```

Set the user employee number.

Parameters

| | |
|-----------------------|--|
| <i>employeeNumber</i> | |
|-----------------------|--|

4.2.2.8 setNIF()

```
void User::setNIF (
    std::string NIF ) [protected]
```


Set the user NIF.

Parameters

| | |
|------------------|--|
| N_{\leftarrow} | |
| IF | |

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

- [include/User.h](#)
- [src/User.cpp](#)

Chapter 5

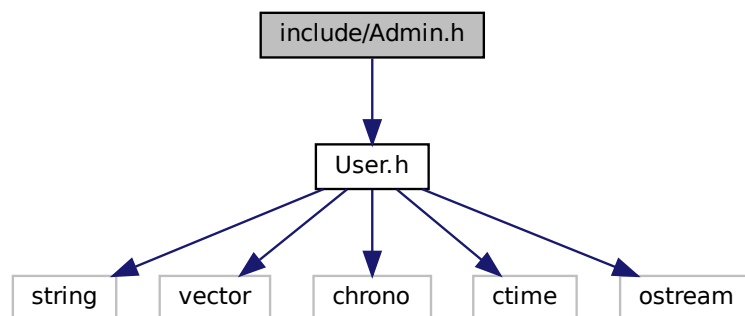
File Documentation

5.1 include/Admin.h File Reference

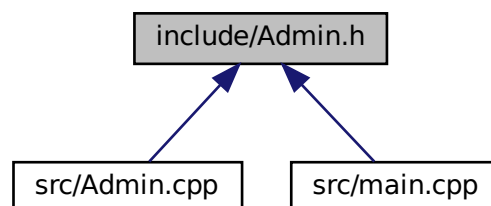
Header file of [Admin.cpp](#).

```
#include "User.h"
```

Include dependency graph for Admin.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [Admin](#)

5.1.1 Detailed Description

Header file of [Admin.cpp](#).

Author

Javier Izquierdo (j.izquierdoh.2021@alumnos.urjc.es)

Version

1.0

Date

2022-11-23

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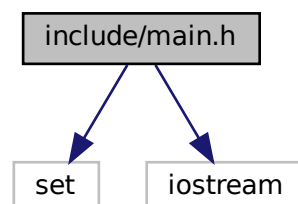
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5.2 include/main.h File Reference

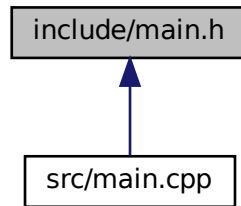
```
#include <set>
```

```
#include <iostream>
```

Include dependency graph for main.h:



This graph shows which files directly or indirectly include this file:



Functions

- `template<typename T >`
`void printSet (std::set< T > &set)`
- `int main ()`

5.2.1 Detailed Description

Author

Javier Izquierdo Hernandez (j.izquierdoh.2021@alumnos.urjc.es)

Version

0.1

Date

2022-11-29

Copyright

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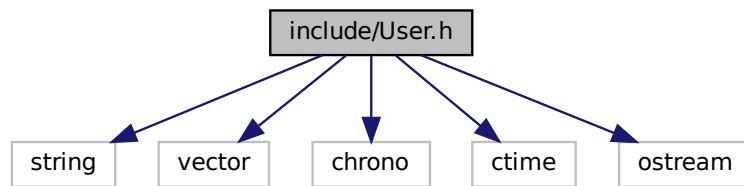
5.3 include/User.h File Reference

Header file of [User.cpp](#).

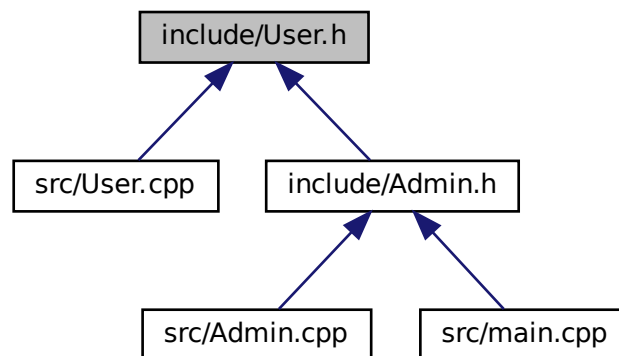
```
#include <string>
#include <vector>
#include <chrono>
#include <ctime>
```

```
#include <ostream>
```

Include dependency graph for User.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [User](#)

5.3.1 Detailed Description

Header file of [User.cpp](#).

Author

Javier Izquierdo (j.izquierdoh.2021@alumnos.urjc.es)

Version

1.0

Date

2022-11-23

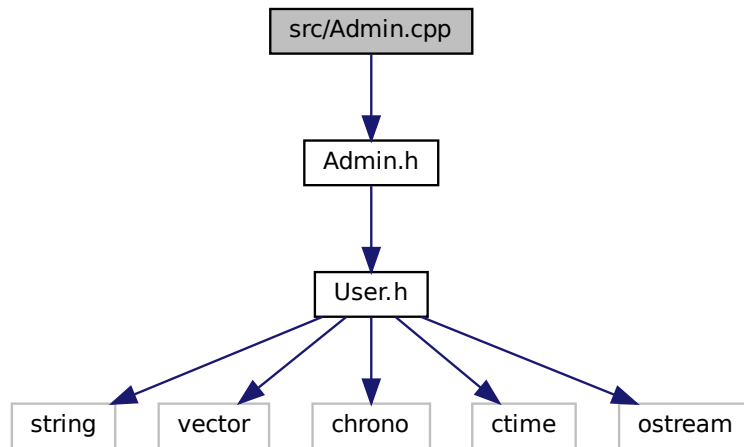
Copyright

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5.4 src/Admin.cpp File Reference

```
#include "Admin.h"
```

Include dependency graph for Admin.cpp:



5.4.1 Detailed Description

Author

Javier Izquierdo (j.izquierdoh.2021@alumnos.urjc.es)

Version

1.0

Date

2022-11-23

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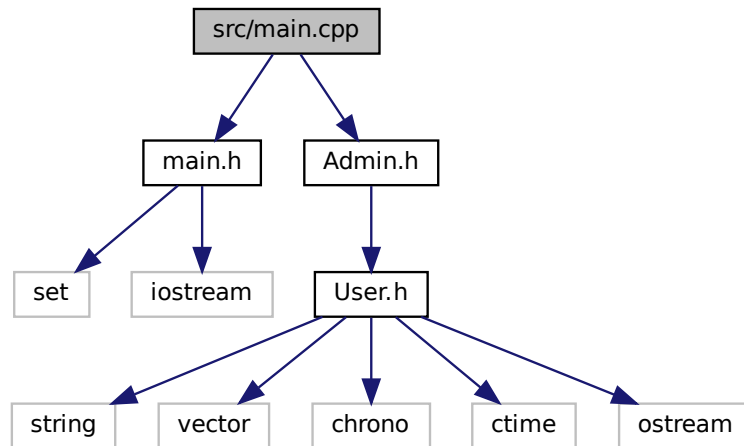
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5.5 src/main.cpp File Reference

```
#include "main.h"
```

```
#include "Admin.h"
```

Include dependency graph for main.cpp:



Functions

- `int main ()`

5.5.1 Detailed Description

Author

Javier Izquierdo Hernandez (j.izquierdoh.2021@alumnos.urjc.es)

Version

0.1

Date

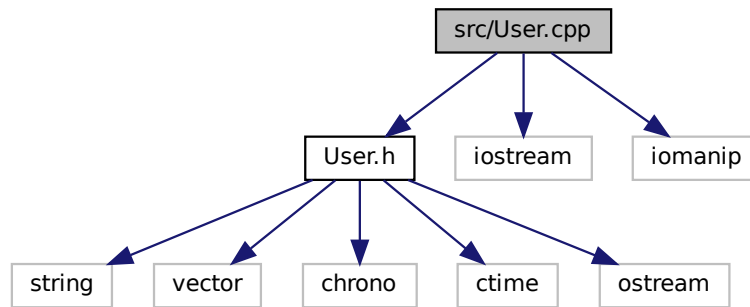
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5.6 src/User.cpp File Reference

```
#include "User.h"  
#include <iostream>  
#include <iomanip>  
Include dependency graph for User.cpp:
```



Functions

- `std::ostream & operator<< (std::ostream &output, const User &user)`

5.6.1 Detailed Description

Author

Javier Izquierdo (j.izquierdoh.2021@alumnos.urjc.es)

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