Practice 4

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Hierarchical Index

1.1 Class Hierarchy

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

User	 	 	 	 	 	 	8
Admin	 	 	 	 	 	 	7

2 Hierarchical Index

Class Index

2.1 Class List

Here are the classes,	structs, unions a	nd interfaces with brie	t descriptions:

Admin	
User	 1

4 Class Index

File Index

3.1 File List

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

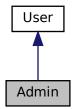
include/Admin.	h																						
Head	er fil	e o	f A	dm	in.d	cpp)			 				 									15
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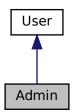
Class Documentation

4.1 Admin Class Reference

Inheritance diagram for Admin:



Collaboration diagram for Admin:



Public Member Functions

• Admin (std::string number="00000", std::string nif="00000000", std::string name="default") Creates a new Admin object. 8 Class Documentation

Additional Inherited Members

4.1.1 Constructor & Destructor Documentation

4.1.1.1 Admin()

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

Creates a new Admin object.

Parameters

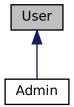
employeeNumber	
NIF	
name	

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="00000000", std::string name="default")

4.2 User Class Reference 9

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

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()

Create a new User.

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Parameters

employeeNumber	
NIF	
name	

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 User Class Reference

4.2.2.4 hasAdminPermission()

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

Returns the user permissions.

Returns

```
true = has admin pemissions
false = does not have admin permissions
```

4.2.2.5 isSameEmployeeNumber()

Check if the user has the input employee number.

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Parameters

```
employeeNumber
```

Returns

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

4.2.2.6 isSameNIF()

Check if the user has the input NIF.

Parameters

```
N⇔
IF
```

Returns

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

4.2.2.7 setEmployeeNumber()

Set the user employee number.

Parameters

```
employeeNumber
```

4.2.2.8 setNIF()

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Set the user NIF.

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Parameters

N←	
IF	

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

- include/User.h
- src/User.cpp

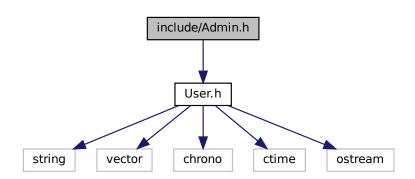
File Documentation

5.1 include/Admin.h File Reference

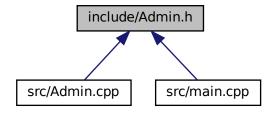
Header file of Admin.cpp.

#include "User.h"

Include dependency graph for Admin.h:



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



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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

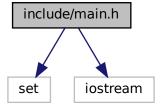
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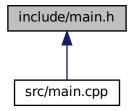
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5.2 include/main.h File Reference

```
#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

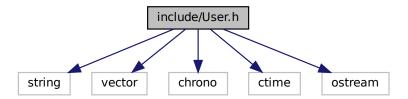
Header file of User.cpp.

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

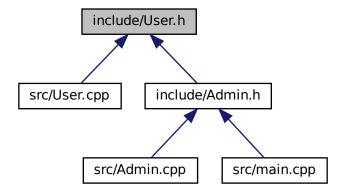
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#include <ostream>

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

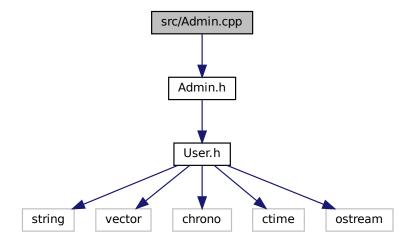
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5.4 src/Admin.cpp File Reference

#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

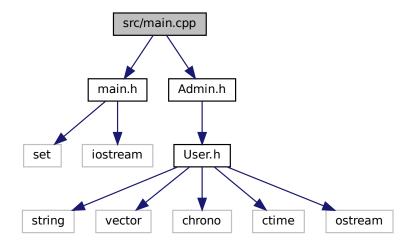
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5.5 src/main.cpp File Reference

```
#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

2022-11-29

Copyright

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5.6 src/User.cpp File Reference

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

src/User.cpp

User.h iostream iomanip

string vector chrono ctime ostream

Functions

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

5.6.1 Detailed Description

Author

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

Version

1.0

Date

2022-11-23

Copyright

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    getTimestamp, 10
    hasAdminPermission, 10
    isSameEmployeeNumber, 11
    isSameNIF, 12
    setEmployeeNumber, 12
    setNIF, 12
    User, 9
```