My Project

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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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General_Info_Decorator 10
Medical_Decorator 11

Chapter 2

Class Index

2.1 Class List

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

Application
: The main class you use to contact with system 5

Application_gos_workers
: Same Application, but specially made for people, who work in/with government 6

Application_usual_person
: Same Application, but specially made for people, who don't work in/with government 7

Bank_Decorator
: All bank information about person 8

Base_Card_Decorator
: Just simple decorator 9

General_Info_Decorator
: Decorator of Info 10

Medical_Decorator
: Medical life 11

Smart_Card 12

Chapter 3

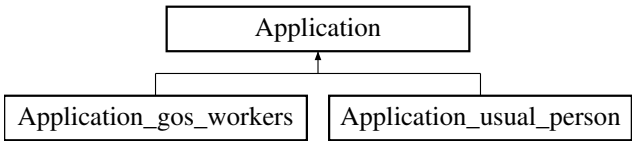
Class Documentation

3.1 Application Class Reference

The main class you use to contact with system.

`#include <Application.h>`

Inheritance diagram for Application:



Public Member Functions

- virtual std::string get_general_information ()

  A function with general info about person like name, birth date and gender.
- std::string get_medical_information ()

  A func about medical information like insurance number and blood_type.
- std::string get_bank_information ()

  All info about banks.

3.1.1 Detailed Description

The main class you use to contact with system.

3.1.2 Member Function Documentation

3.1.2.1 get_bank_information()

```
std::string Application::get_bank_information ( )  [inline]
```

All info about banks.

Returns

Returns u card_number and individual taxes number

3.1.2.2 get_general_information()

```
virtual std::string Application::get_general_information ( )  [inline], [virtual]
```

A function with general info about person like name, birth date and gender.

Returns

Returns all general info

Reimplemented in Application_gos_workers, and Application_usual_person.

3.1.2.3 get_medical_information()

```
std::string Application::get_medical_information ( )  [inline]
```

A func about medical information like insurance number and blood_type.

Returns

Gives u insurance number and blood type

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

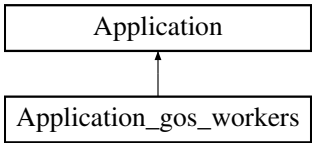
- Application.h

3.2 Application_gos_workers Class Reference

Same Application, but specially made for people, who work in/with government.

```
#include <Application_gos_workers.h>
```

Inheritance diagram for Application_gos_workers:



Public Member Functions

- std::string get_general_information () override

  A function with general info about person like name, birth date and gender, also place of work.

3.2.1 Detailed Description

Same Application, but specially made for people, who work in/with government.

3.2.2 Member Function Documentation

3.2.2.1 get_general_information()

```
std::string Application_gos_workers::get_general_information ( )  [inline], [override], [virtual]
```

A function with general info about person like name, birth date and gender, also place of work.

Returns

Returns all general info

Reimplemented from Application.

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

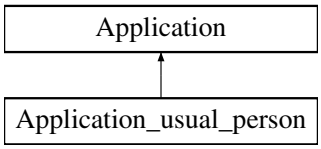
- Application_gos_workers.h

3.3 Application_usual_person Class Reference

Same Application, but specially made for people, who don't work in/with government.

```
#include <Application_usual_person.h>
```

Inheritance diagram for Application_usual_person:



Public Member Functions

- std::string get_general_information () override

  A function with general info about person like name, birth date and gender, also information if this person ever worked on government.

3.3.1 Detailed Description

Same Application, but specially made for people, who don't work in/with government.

3.3.2 Member Function Documentation

3.3.2.1 get_general_information()

```
std::string Application_usual_person::get_general_information ( )  [inline], [override], [virtual]
```

A function with general info about person like name, birth date and gender, also information if this person ever worked on government.

Returns

Returns all general info

Reimplemented from Application.

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

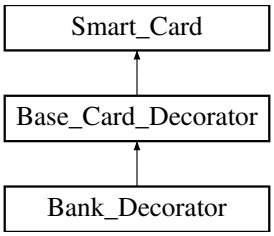
- Application_usual_person.h

3.4 Bank_Decorator Class Reference

All bank information about person.

```
#include <Bank_Decorator.h>
```

Inheritance diagram for Bank_Decorator:



Public Member Functions

- std::string get_bank_information () override

  Bank information like card number and itn.
- **Bank_Decorator** (Smart_Card *s)

Additional Inherited Members

3.4.1 Detailed Description

All bank information about person.

3.4.2 Member Function Documentation

3.4.2.1 get_bank_information()

```
std::string Bank_Decorator::get_bank_information ( )  [inline], [override], [virtual]
```

Bank information like card number and itn.

Returns

Returns card number and individual taxes number

Reimplemented from Base_Card_Decorator.

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

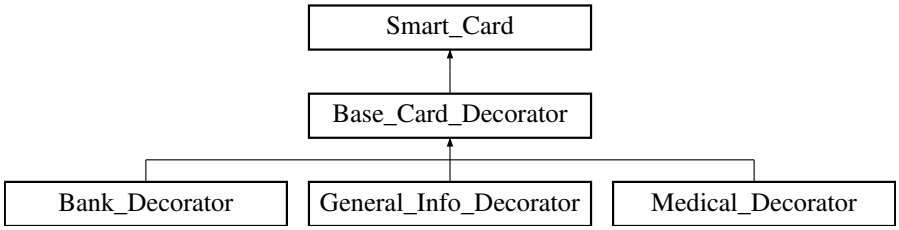
- Bank_Decorator.h

3.5 Base_Card_Decorator Class Reference

Just simple decorator.

```
#include <base_decorator.h>
```

Inheritance diagram for Base_Card_Decorator:



Public Member Functions

- **Base_Card_Decorator** (Smart_Card *s)
- virtual std::string **get_general_information** () override
- virtual std::string **get_medical_information** () override
- virtual std::string **get_bank_information** () override

Public Attributes

- Smart_Card * **wrappee**

3.5.1 Detailed Description

Just simple decorator.

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

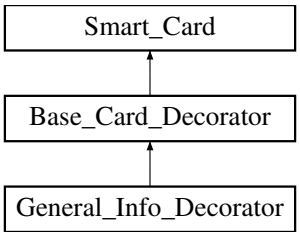
- base_decorator.h

3.6 General_Info_Decorator Class Reference

Decorator of Info.

`#include <General_Info_Decorator.h>`

Inheritance diagram for General_Info_Decorator:



Public Member Functions

- std::string get_general_information () override
- **General_Info_Decorator** (Smart_Card *s)

Additional Inherited Members

3.6.1 Detailed Description

Decorator of Info.

3.6.2 Member Function Documentation

3.6.2.1 get_general_information()

```
std::string General_Info_Decorator::get_general_information ( )  [inline], [override], [virtual]
```

gives u general information

Returns

Returns a string from name and date of birth

Reimplemented from Base_Card_Decorator.

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

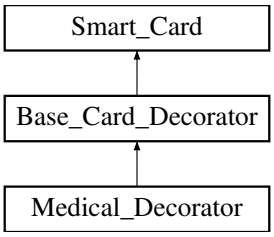
- General_Info_Decorator.h

3.7 Medical_Decorator Class Reference

Medical life.

```
#include <Medical_Decorator.h>
```

Inheritance diagram for Medical_Decorator:



Public Member Functions

- std::string get_medical_information () override
- void get_blood_type ()
- **Medical_Decorator** (Smart_Card *s)

Additional Inherited Members

3.7.1 Detailed Description

Medical life.

3.7.2 Member Function Documentation

3.7.2.1 get_blood_type()

```
void Medical_Decorator::get_blood_type ( )  [inline]
```

brief Gets blood type from base

3.7.2.2 get_medical_information()

```
std::string Medical_Decorator::get_medical_information ( )  [inline], [override], [virtual]
```

Medical info

Returns

Blood type and insurance

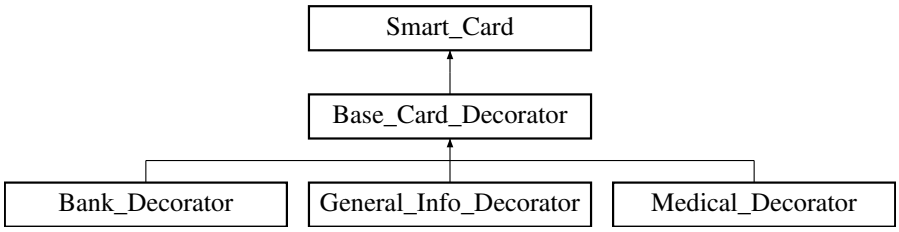
Reimplemented from Base_Card_Decorator.

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

- Medical_Decorator.h

3.8 Smart_Card Class Reference

Inheritance diagram for Smart_Card:



Public Member Functions

- **Smart_Card** (int _id=0)
- const std::string **get_name** ()
- const std::string **get_date_of_birth** ()
- const std::string **get_taxes_number** ()
- const std::string **get_insurance** ()
- const std::string **get_bank_card_number** ()
- const std::string **get_driving_licence** ()
- virtual std::string **get_general_information** ()
- virtual std::string **get_medical_information** ()
- virtual std::string **get_bank_information** ()

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

- Smart_Card.h

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