

FMenu

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

FMenuFacade	7
FVisitor	8
InsertVisitor	10
RemoveVisitor	22
MenuNameVisitor	17
SelectElementVisitor	25
MenuElement	12
MenuMultiSelect	14
MenuSingleSelect	20

Chapter 2

Class Index

2.1 Class List

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

FMenuFacade	7
FVisitor	8
InsertVisitor	10
MenuElement	12
MenuMultiSelect	14
MenuNameVisitor	17
MenuSingleSelect	20
RemoveVisitor	22
SelectElementVisitor	25

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

FMenuFacade.cpp	29
FMenuFacade.h	30
FVisitor.cpp	31
FVisitor.h	31
InsertVisitor.cpp	32
InsertVisitor.h	33
main.cpp	34
MenuElement.cpp	35
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MenuMultiSelect.cpp	37
MenuMultiSelect.h	37
MenuNameVisitor.cpp	38
MenuNameVisitor.h	39
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MenuSingleSelect.h	41
RemoveVisitor.cpp	42
RemoveVisitor.h	43
SelectElementVisitor.cpp	44
SelectElementVisitor.h	45

Chapter 4

Class Documentation

4.1 FMenuFacade Class Reference

```
#include <FMenuFacade.h>
```

Collaboration diagram for FMenuFacade:

FMenuFacade
- root
+ FMenuFacade() + addElement() + removeElement() + getMenuNames() + selectElement() + MultiMenuElement() + SingleMenuElement()

Public Types

- typedef [MenuNameVisitor::name_list](#) [name_list](#)
- typedef std::pair< uint, std::string > [name](#)

Public Member Functions

- [FMenuFacade](#) (std::string [name](#))
- void [addElement](#) (uint pos, [MenuElement](#) *el)
- void [removeElement](#) (uint pos)
- std::shared_ptr< [name_list](#) > [getMenuNames](#) ()
- void [selectElement](#) (uint pos)

Static Public Member Functions

- static [MenuElement](#) * [MultiMenuElement](#) (std::string *name*)
- static [MenuElement](#) * [SingleMenuElement](#) (std::string *name*, std::function< void()>=*[]{}*)

Private Attributes

- std::unique_ptr< [MenuMultiSelect](#) > *root*

4.1.1 Member Typedef Documentation

4.1.1.1 typedef std::pair<uint, std::string> [FMenuFacade::name](#)

4.1.1.2 typedef [MenuNameVisitor::name_list](#) [FMenuFacade::name_list](#)

4.1.2 Constructor & Destructor Documentation

4.1.2.1 [FMenuFacade::FMenuFacade](#) (std::string *name*)

4.1.3 Member Function Documentation

4.1.3.1 void [FMenuFacade::addElement](#) (uint *pos*, [MenuElement](#) * *el*)

4.1.3.2 std::shared_ptr< [FMenuFacade::name_list](#) > [FMenuFacade::getMenuNames](#) ()

4.1.3.3 [MenuElement](#) * [FMenuFacade::MultiMenuElement](#) (std::string *name*) [static]

4.1.3.4 void [FMenuFacade::removeElement](#) (uint *pos*)

4.1.3.5 void [FMenuFacade::selectElement](#) (uint *pos*)

4.1.3.6 [MenuElement](#) * [FMenuFacade::SingleMenuElement](#) (std::string *name*, std::function< void()> *function* = [] {})
[static]

4.1.4 Member Data Documentation

4.1.4.1 std::unique_ptr<[MenuMultiSelect](#)> [FMenuFacade::root](#) [private]

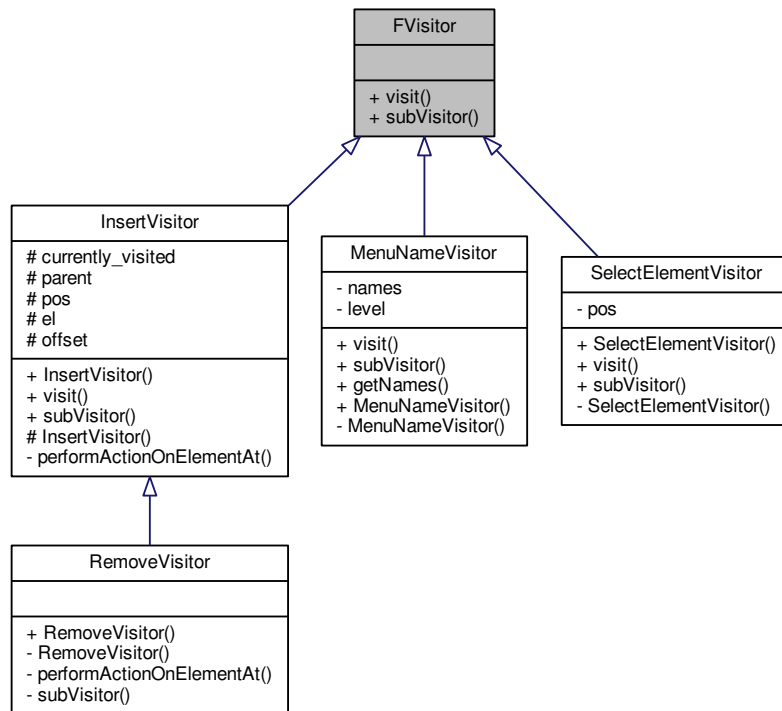
The documentation for this class was generated from the following files:

- [FMenuFacade.h](#)
- [FMenuFacade.cpp](#)

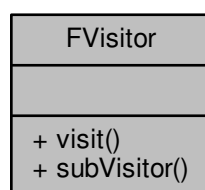
4.2 FVisitor Class Reference

```
#include <FVisitor.h>
```

Inheritance diagram for FVisitor:



Collaboration diagram for FVisitor:



Public Member Functions

- virtual void `visit (MenuElement *)`=0
- virtual `std::unique_ptr< FVisitor > subVisitor ()`=0

4.2.1 Member Function Documentation

4.2.1.1 `virtual std::unique_ptr<FVisitor> FVisitor::subVisitor() [pure virtual]`

Implemented in [RemoveVisitor](#), [MenuNameVisitor](#), [SelectElementVisitor](#), and [InsertVisitor](#).

4.2.1.2 `virtual void FVisitor::visit(MenuElement*) [pure virtual]`

Implemented in [MenuNameVisitor](#), [InsertVisitor](#), and [SelectElementVisitor](#).

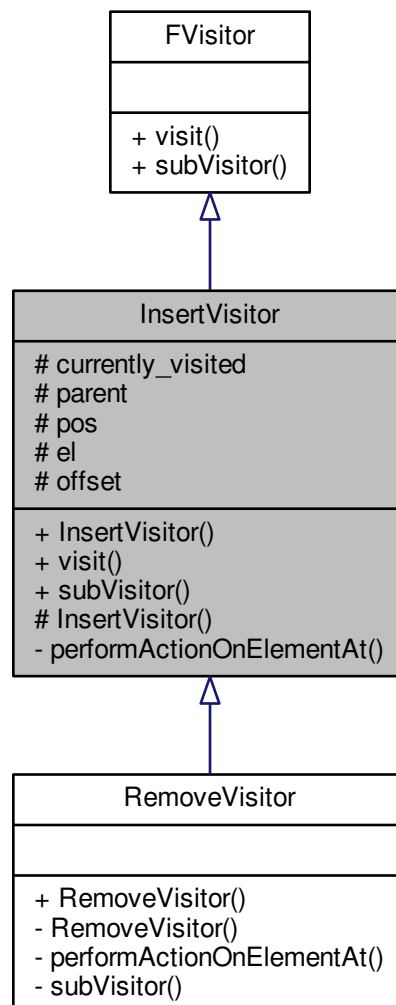
The documentation for this class was generated from the following file:

- [FVisitor.h](#)

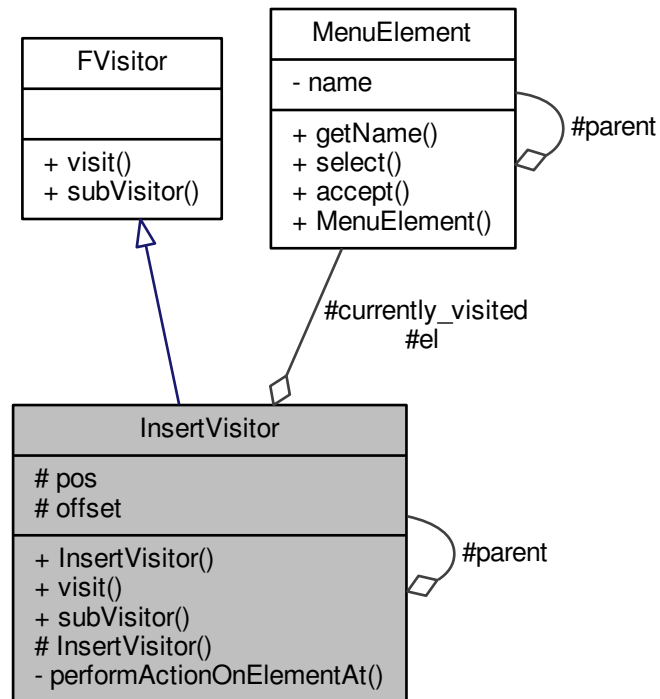
4.3 InsertVisitor Class Reference

```
#include <InsertVisitor.h>
```

Inheritance diagram for InsertVisitor:



Collaboration diagram for InsertVisitor:



Public Member Functions

- [InsertVisitor](#) ([MenuElement *el](#), [uint pos](#))
- void [visit](#) ([MenuElement *](#)) override
- virtual `std::unique_ptr< FVisitor >` [subVisitor](#) () override

Protected Member Functions

- [InsertVisitor](#) ([MenuElement *el](#), `std::shared_ptr< uint >` [pos](#), [InsertVisitor *parent](#))

Protected Attributes

- [MenuElement *](#) [currently_visited](#)
- [InsertVisitor *](#) [parent](#)
- `std::shared_ptr< uint >` [pos](#)
- [MenuElement *](#) [el](#)
- [uint](#) [offset](#)

Private Member Functions

- virtual void [performActionOnElementAt](#) ([uint offset](#))

4.3.1 Constructor & Destructor Documentation

4.3.1.1 `InsertVisitor::InsertVisitor (MenuElement * el, uint pos)` `[inline]`

4.3.1.2 `InsertVisitor::InsertVisitor (MenuElement * el, std::shared_ptr< uint > pos, InsertVisitor * parent)`
`[inline],[protected]`

4.3.2 Member Function Documentation

4.3.2.1 `void InsertVisitor::performActionOnElementAt (uint offset)` `[private],[virtual]`

Reimplemented in [RemoveVisitor](#).

4.3.2.2 `std::unique_ptr< FVisitor > InsertVisitor::subVisitor ()` `[override],[virtual]`

Implements [FVisitor](#).

Reimplemented in [RemoveVisitor](#).

4.3.2.3 `void InsertVisitor::visit (MenuElement * el)` `[override],[virtual]`

Implements [FVisitor](#).

4.3.3 Member Data Documentation

4.3.3.1 `MenuElement* InsertVisitor::currently_visited` `[protected]`

4.3.3.2 `MenuElement* InsertVisitor::el` `[protected]`

4.3.3.3 `uint InsertVisitor::offset` `[protected]`

4.3.3.4 `InsertVisitor* InsertVisitor::parent` `[protected]`

4.3.3.5 `std::shared_ptr<uint> InsertVisitor::pos` `[protected]`

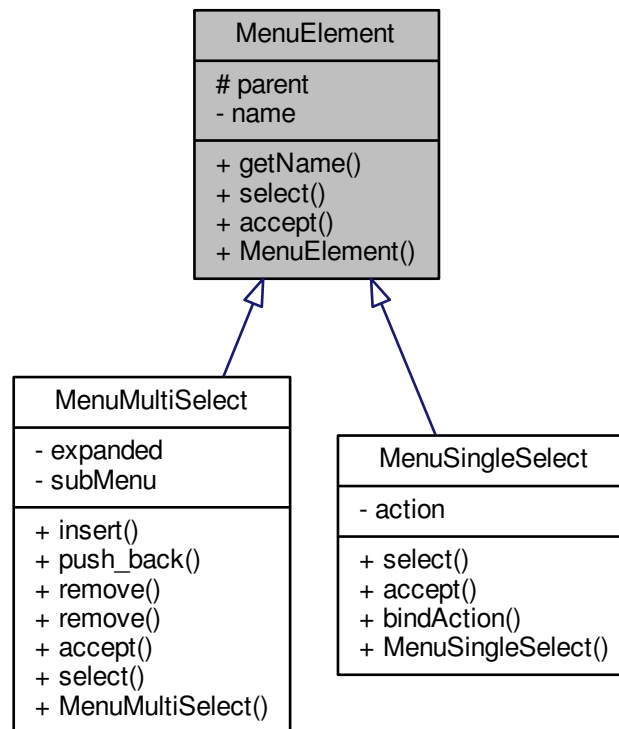
The documentation for this class was generated from the following files:

- [InsertVisitor.h](#)
- [InsertVisitor.cpp](#)

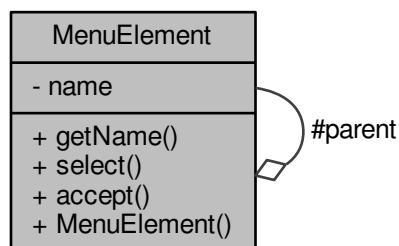
4.4 MenuElement Class Reference

```
#include <MenuElement.h>
```

Inheritance diagram for MenuElement:



Collaboration diagram for MenuElement:



Public Member Functions

- virtual std::string [getName](#) () const
- virtual void [select](#) ()=0
- virtual void [accept](#) (FVisitor &, bool skip_hidden=true)=0
- [MenuElement](#) (std::string [name](#))

Protected Attributes

- [MenuElement](#) * `parent` = nullptr

Private Attributes

- std::string `name`

4.4.1 Constructor & Destructor Documentation

4.4.1.1 `MenuElement::MenuElement (std::string name)` [inline]

4.4.2 Member Function Documentation

4.4.2.1 `virtual void MenuElement::accept (FVisitor & , bool skip_hidden = true)` [pure virtual]

Implemented in [MenuMultiSelect](#), and [MenuSingleSelect](#).

4.4.2.2 `std::string MenuElement::getName () const` [virtual]

4.4.2.3 `virtual void MenuElement::select ()` [pure virtual]

Implemented in [MenuMultiSelect](#), and [MenuSingleSelect](#).

4.4.3 Member Data Documentation

4.4.3.1 `std::string MenuElement::name` [private]

4.4.3.2 `MenuElement* MenuElement::parent = nullptr` [protected]

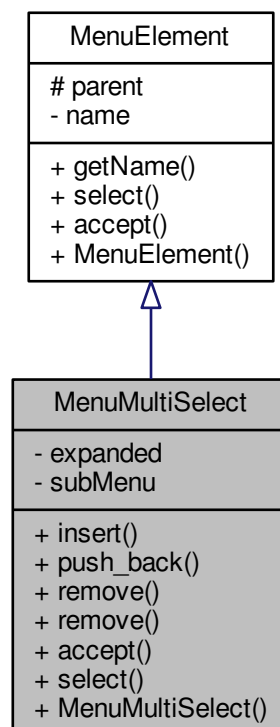
The documentation for this class was generated from the following files:

- [MenuElement.h](#)
- [MenuElement.cpp](#)

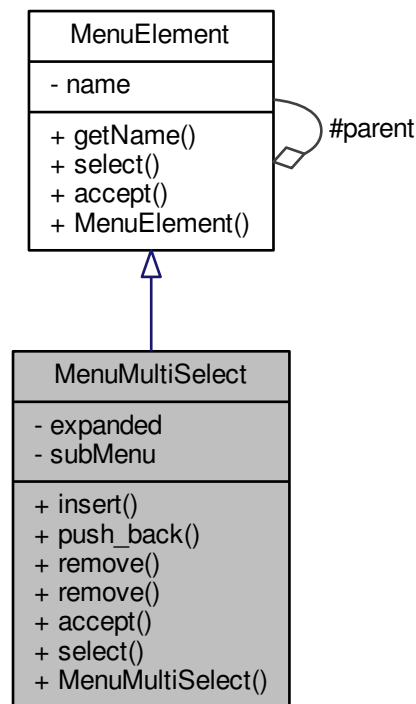
4.5 MenuMultiSelect Class Reference

```
#include <MenuMultiSelect.h>
```

Inheritance diagram for MenuMultiSelect:



Collaboration diagram for MenuMultiSelect:



Public Member Functions

- void [insert](#) (uint pos, [MenuElement](#) *e)
- void [push_back](#) ([MenuElement](#) &e)
- void [remove](#) ([MenuElement](#) *e)
- void [remove](#) (uint pos)
- void [accept](#) ([FVisitor](#) &visitor, bool skip_hidden=true) override
- void [select](#) () override
- [MenuMultiSelect](#) (const std::string &name)

Private Attributes

- bool [expanded](#) = true
- std::vector< std::unique_ptr< [MenuElement](#) > > [subMenu](#)

Additional Inherited Members

4.5.1 Constructor & Destructor Documentation

4.5.1.1 [MenuMultiSelect::MenuMultiSelect](#) (const std::string & *name*) `[inline]`

4.5.2 Member Function Documentation

4.5.2.1 void MenuMultiSelect::accept (FVisitor & *visitor*, bool *skip_hidden* = true) [override],[virtual]

Implements [MenuElement](#).

4.5.2.2 void MenuMultiSelect::insert (uint *pos*, MenuElement * *e*)

4.5.2.3 void MenuMultiSelect::push_back (MenuElement & *e*)

4.5.2.4 void MenuMultiSelect::remove (MenuElement * *e*)

4.5.2.5 void MenuMultiSelect::remove (uint *pos*)

4.5.2.6 void MenuMultiSelect::select () [override],[virtual]

Implements [MenuElement](#).

4.5.3 Member Data Documentation

4.5.3.1 bool MenuMultiSelect::expanded = true [private]

4.5.3.2 std::vector<std::unique_ptr<MenuElement>> MenuMultiSelect::subMenu [private]

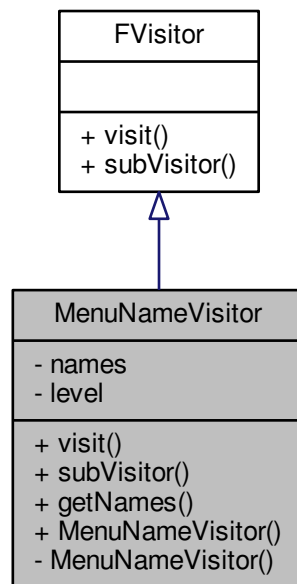
The documentation for this class was generated from the following files:

- [MenuMultiSelect.h](#)
- [MenuMultiSelect.cpp](#)

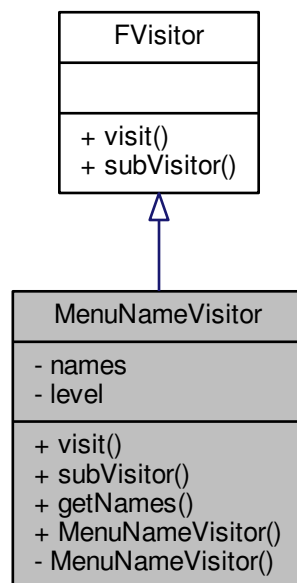
4.6 MenuNameVisitor Class Reference

```
#include <MenuNameVisitor.h>
```

Inheritance diagram for MenuNameVisitor:



Collaboration diagram for MenuNameVisitor:



Public Types

- typedef std::vector< std::pair< uint, std::string > > [name_list](#)
- typedef std::pair< uint, std::string > [name](#)

Public Member Functions

- virtual void [visit](#) ([MenuElement](#) *element) override
- virtual std::unique_ptr< [FVisitor](#) > [subVisitor](#) () override
- std::shared_ptr< [name_list](#) > [getNames](#) ()
- [MenuNameVisitor](#) ()

Private Member Functions

- [MenuNameVisitor](#) (std::shared_ptr< [name_list](#) > parent_names, uint [level](#))

Private Attributes

- std::shared_ptr< [name_list](#) > [names](#)
- uint [level](#) = 0

4.6.1 Member Typedef Documentation

4.6.1.1 typedef std::pair<uint, std::string> [MenuNameVisitor::name](#)

4.6.1.2 typedef std::vector<std::pair<uint, std::string> > [MenuNameVisitor::name_list](#)

4.6.2 Constructor & Destructor Documentation

4.6.2.1 [MenuNameVisitor::MenuNameVisitor](#) ()

4.6.2.2 [MenuNameVisitor::MenuNameVisitor](#) (std::shared_ptr< [name_list](#) > *parent_names*, uint *level*) [private]

4.6.3 Member Function Documentation

4.6.3.1 std::shared_ptr< [MenuNameVisitor::name_list](#) > [MenuNameVisitor::getNames](#) ()

4.6.3.2 std::unique_ptr< [FVisitor](#) > [MenuNameVisitor::subVisitor](#) () [override],[virtual]

Implements [FVisitor](#).

4.6.3.3 void [MenuNameVisitor::visit](#) ([MenuElement](#) * *element*) [override],[virtual]

Implements [FVisitor](#).

4.6.4 Member Data Documentation

4.6.4.1 uint [MenuNameVisitor::level](#) = 0 [private]

4.6.4.2 std::shared_ptr<[name_list](#)> [MenuNameVisitor::names](#) [private]

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

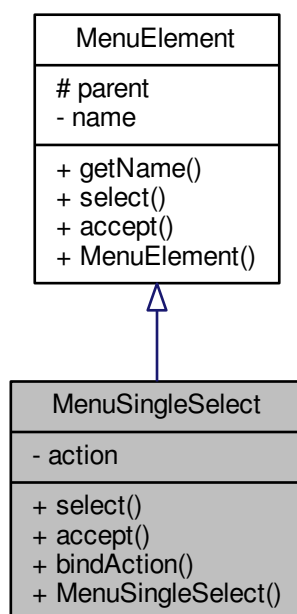
- [MenuNameVisitor.h](#)

- [MenuNameVisitor.cpp](#)

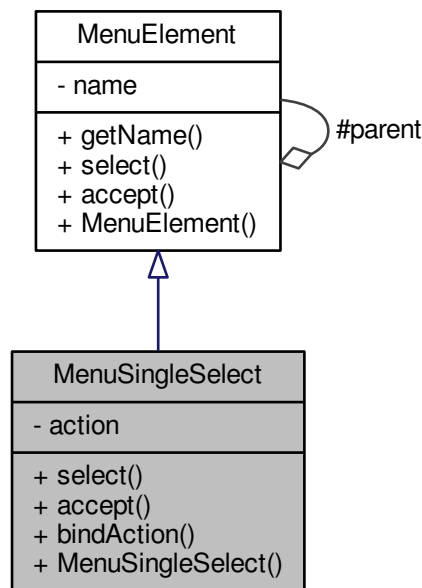
4.7 MenuSingleSelect Class Reference

```
#include <MenuSingleSelect.h>
```

Inheritance diagram for MenuSingleSelect:



Collaboration diagram for MenuSingleSelect:



Public Member Functions

- virtual void [select](#) () override
- virtual void [accept](#) (FVisitor &visitor, bool) override
- virtual void [bindAction](#) (std::function< void()> function)
- [MenuSingleSelect](#) (std::string name)

Private Attributes

- std::function< void()> [action](#)

Additional Inherited Members

4.7.1 Constructor & Destructor Documentation

4.7.1.1 `MenuSingleSelect::MenuSingleSelect (std::string name)`

4.7.2 Member Function Documentation

4.7.2.1 `void MenuSingleSelect::accept (FVisitor & visitor, bool)` [override],[virtual]

Implements [MenuElement](#).

4.7.2.2 `void MenuSingleSelect::bindAction (std::function< void()> function)` [virtual]

4.7.2.3 `void MenuSingleSelect::select () [override],[virtual]`

Implements [MenuElement](#).

4.7.3 Member Data Documentation

4.7.3.1 `std::function<void()> MenuSingleSelect::action [private]`

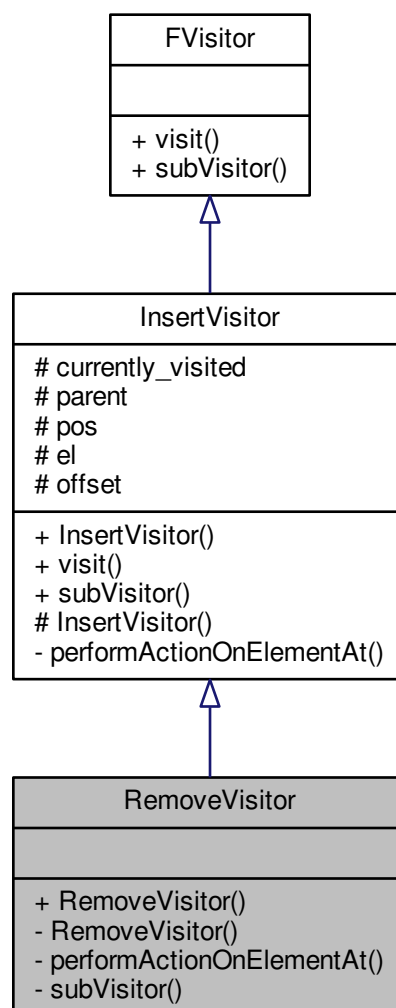
The documentation for this class was generated from the following files:

- [MenuSingleSelect.h](#)
- [MenuSingleSelect.cpp](#)

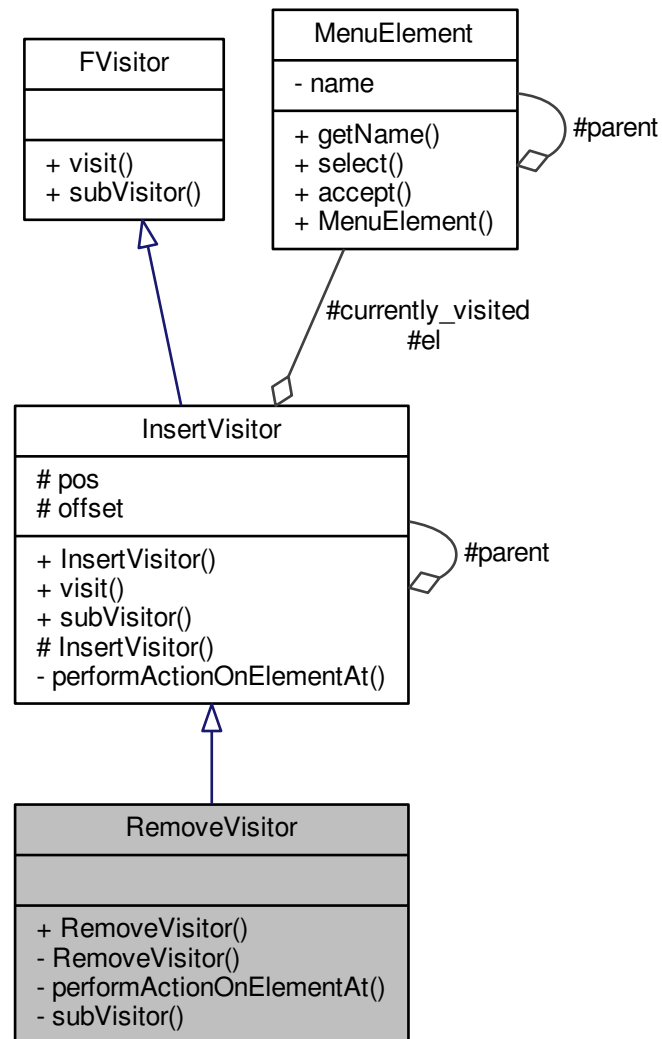
4.8 RemoveVisitor Class Reference

```
#include <RemoveVisitor.h>
```

Inheritance diagram for RemoveVisitor:



Collaboration diagram for RemoveVisitor:



Public Member Functions

- [RemoveVisitor](#) (uint [pos](#))

Private Member Functions

- [RemoveVisitor](#) (std::shared_ptr< uint > [pos](#), [InsertVisitor](#) *[parent](#))
- virtual void [performActionOnElementAt](#) (uint [offset](#)) override
- virtual std::unique_ptr< [FVisitor](#) > [subVisitor](#) () override

Additional Inherited Members

4.8.1 Constructor & Destructor Documentation

4.8.1.1 `RemoveVisitor::RemoveVisitor (uint pos)` `[inline]`

4.8.1.2 `RemoveVisitor::RemoveVisitor (std::shared_ptr< uint > pos, InsertVisitor * parent)` `[inline]`,
`[private]`

4.8.2 Member Function Documentation

4.8.2.1 `void RemoveVisitor::performActionOnElementAt (uint offset)` `[override]`, `[private]`, `[virtual]`

Reimplemented from [InsertVisitor](#).

4.8.2.2 `std::unique_ptr< FVisitor > RemoveVisitor::subVisitor ()` `[override]`, `[private]`, `[virtual]`

Reimplemented from [InsertVisitor](#).

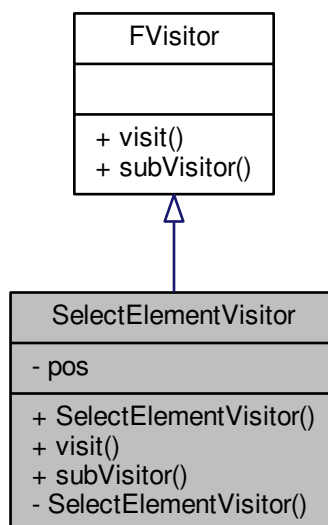
The documentation for this class was generated from the following files:

- [RemoveVisitor.h](#)
- [RemoveVisitor.cpp](#)

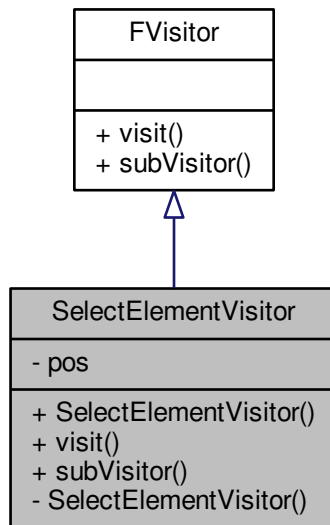
4.9 SelectElementVisitor Class Reference

```
#include <SelectElementVisitor.h>
```

Inheritance diagram for SelectElementVisitor:



Collaboration diagram for SelectElementVisitor:



Public Member Functions

- [SelectElementVisitor](#) (uint *pos*)
- virtual void [visit](#) ([MenuElement](#) *element)
- virtual std::unique_ptr< [FVisitor](#) > [subVisitor](#) ()

Private Member Functions

- [SelectElementVisitor](#) (std::shared_ptr< uint > *pos*)

Private Attributes

- std::shared_ptr< uint > *pos*

4.9.1 Constructor & Destructor Documentation

4.9.1.1 `SelectElementVisitor::SelectElementVisitor (uint pos)` [`inline`]

4.9.1.2 `SelectElementVisitor::SelectElementVisitor (std::shared_ptr< uint > pos)` [`inline`], [`private`]

4.9.2 Member Function Documentation

4.9.2.1 `std::unique_ptr< FVisitor > SelectElementVisitor::subVisitor ()` [`virtual`]

Implements [FVisitor](#).

4.9.2.2 void SelectElementVisitor::visit (MenuElement * *element*) [virtual]

Implements [FVisitor](#).

4.9.3 Member Data Documentation

4.9.3.1 std::shared_ptr<uint> SelectElementVisitor::pos [private]

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

- [SelectElementVisitor.h](#)
- [SelectElementVisitor.cpp](#)

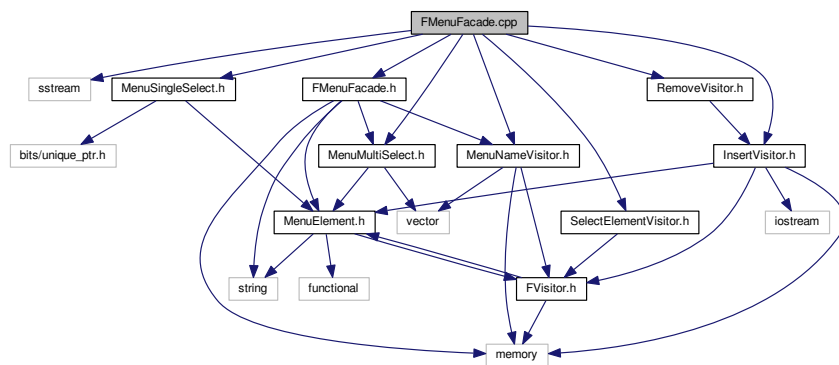
Chapter 5

File Documentation

5.1 FMenuFacade.cpp File Reference

```
#include <sstream>
#include "FMenuFacade.h"
#include "MenuMultiSelect.h"
#include "MenuSingleSelect.h"
#include "MenuNameVisitor.h"
#include "InsertVisitor.h"
#include "RemoveVisitor.h"
#include "SelectElementVisitor.h"
```

Include dependency graph for FMenuFacade.cpp:



Functions

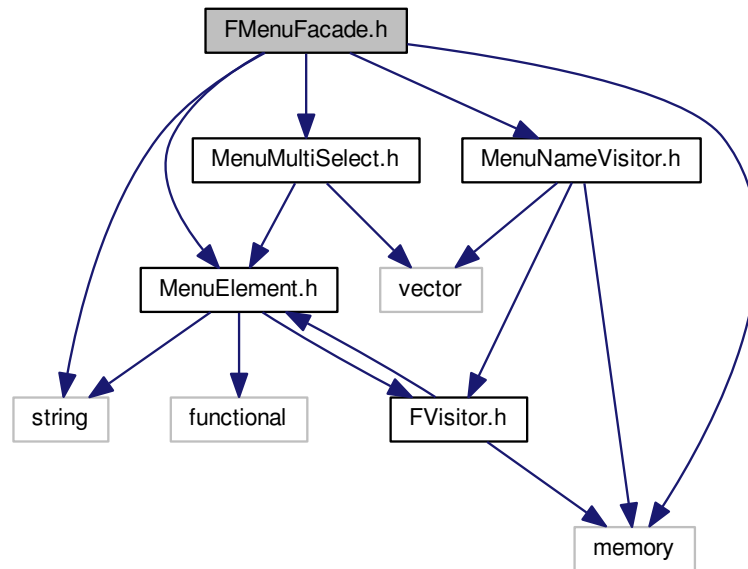
- std::ostream & [operator<<](#) (std::ostream &os, const [FMenuFacade::name](#) &name)

5.1.1 Function Documentation

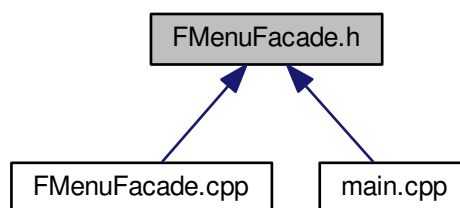
5.1.1.1 std::ostream& [operator<<](#) (std::ostream & os, const [FMenuFacade::name](#) & *name*)

5.2 FMenuFacade.h File Reference

```
#include "MenuElement.h"
#include "MenuMultiSelect.h"
#include "MenuNameVisitor.h"
#include <memory>
#include <string>
Include dependency graph for FMenuFacade.h:
```



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



Classes

- class [FMenuFacade](#)

Functions

- `std::ostream & operator<< (std::ostream &out, const FMenuFacade::name &)`

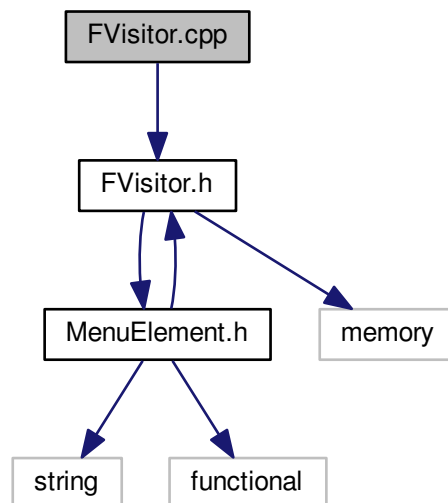
5.2.1 Function Documentation

5.2.1.1 `std::ostream& operator<< (std::ostream & out, const FMenuFacade::name &)`

5.3 FVisitor.cpp File Reference

```
#include "FVisitor.h"
```

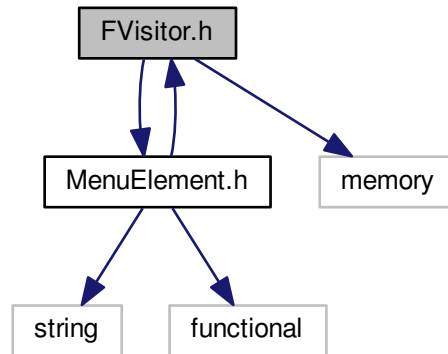
Include dependency graph for FVisitor.cpp:



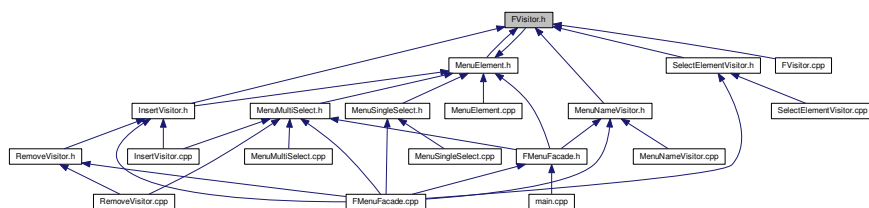
5.4 FVisitor.h File Reference

```
#include "MenuElement.h"  
#include <memory>
```

Include dependency graph for FVisitor.h:



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



Classes

- class [FVisitor](#)

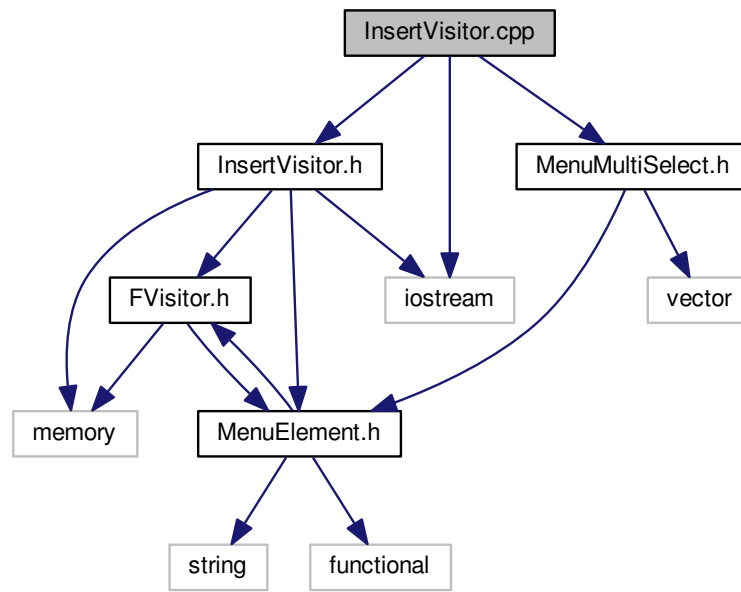
5.5 InsertVisitor.cpp File Reference

```

#include "InsertVisitor.h"
#include "MenuMultiSelect.h"
#include <iostream>

```

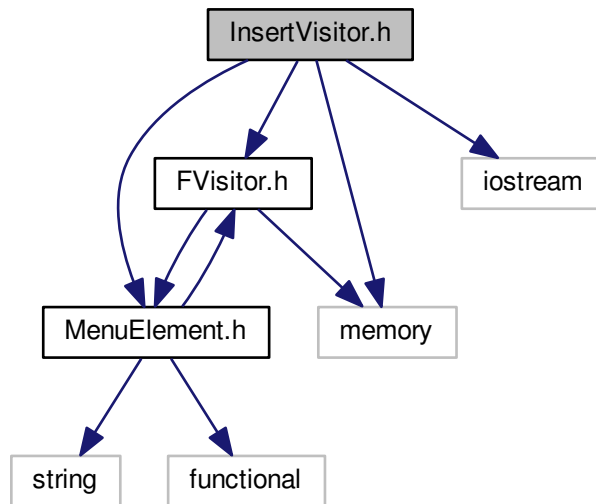
Include dependency graph for InsertVisitor.cpp:



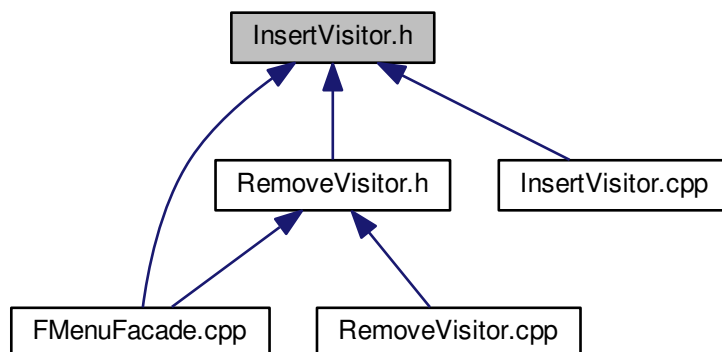
5.6 InsertVisitor.h File Reference

```
#include "FVisitor.h"  
#include "MenuElement.h"  
#include <memory>  
#include <iostream>
```

Include dependency graph for InsertVisitor.h:



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



Classes

- class [InsertVisitor](#)

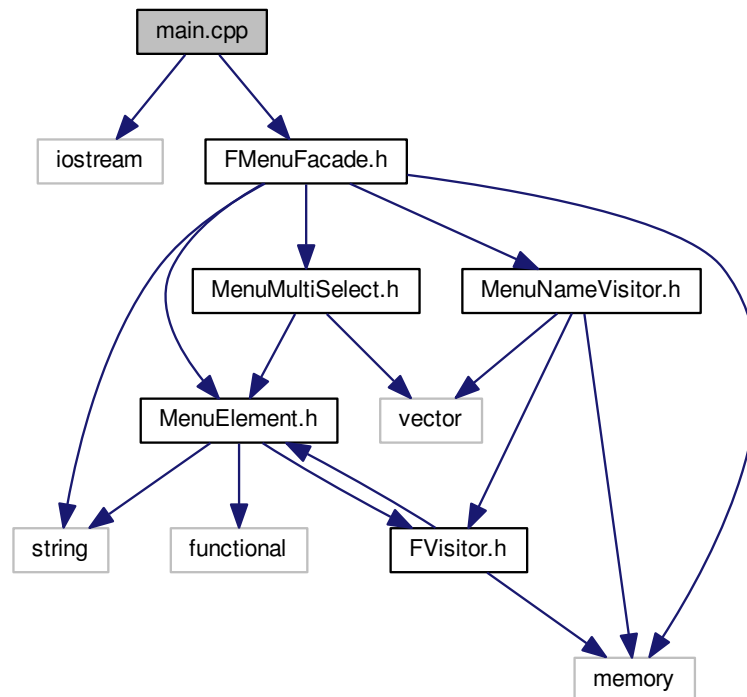
5.7 main.cpp File Reference

```
#include <iostream>
```



```
#include "FMenuFacade.h"
```

Include dependency graph for main.cpp:



Functions

- int [main](#) ()

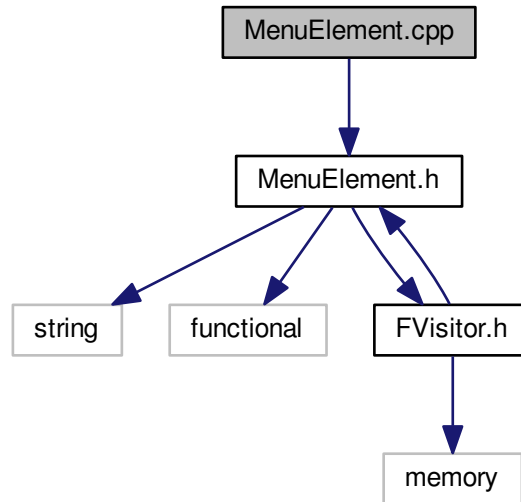
5.7.1 Function Documentation

5.7.1.1 int main ()

5.8 MenuElement.cpp File Reference

```
#include "MenuElement.h"
```

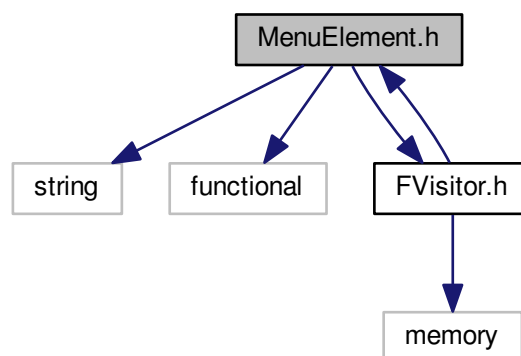
Include dependency graph for MenuElement.cpp:



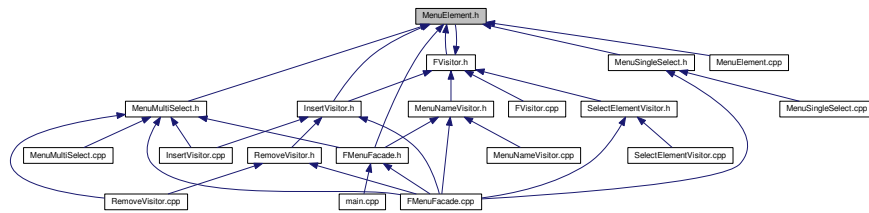
5.9 MenuElement.h File Reference

```
#include <string>
#include <functional>
#include "FVisitor.h"
```

Include dependency graph for MenuElement.h:



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



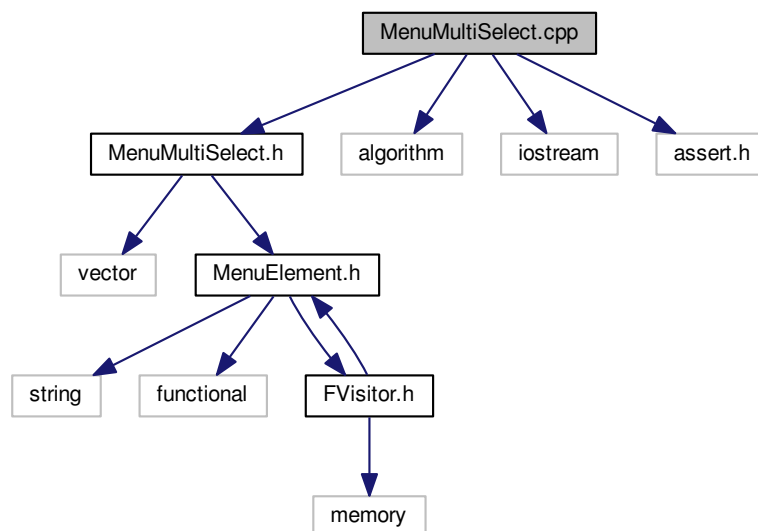
Classes

- class [MenuElement](#)

5.10 MenuMultiSelect.cpp File Reference

```
#include "MenuMultiSelect.h"
#include <algorithm>
#include <iostream>
#include <assert.h>
```

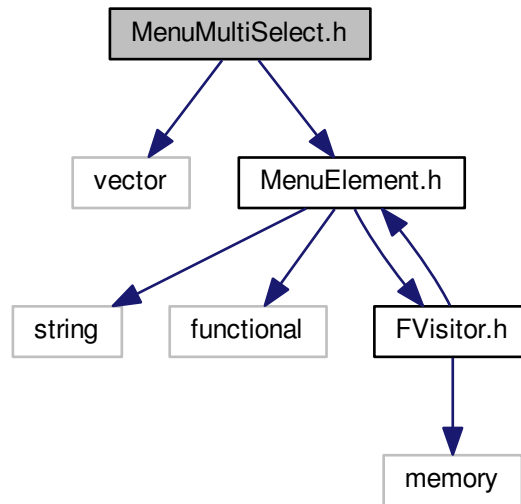
Include dependency graph for MenuMultiSelect.cpp:



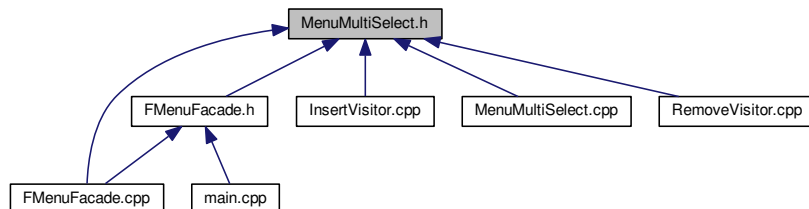
5.11 MenuMultiSelect.h File Reference

```
#include <vector>
#include "MenuElement.h"
```

Include dependency graph for MenuMultiSelect.h:



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



Classes

- class [MenuMultiSelect](#)

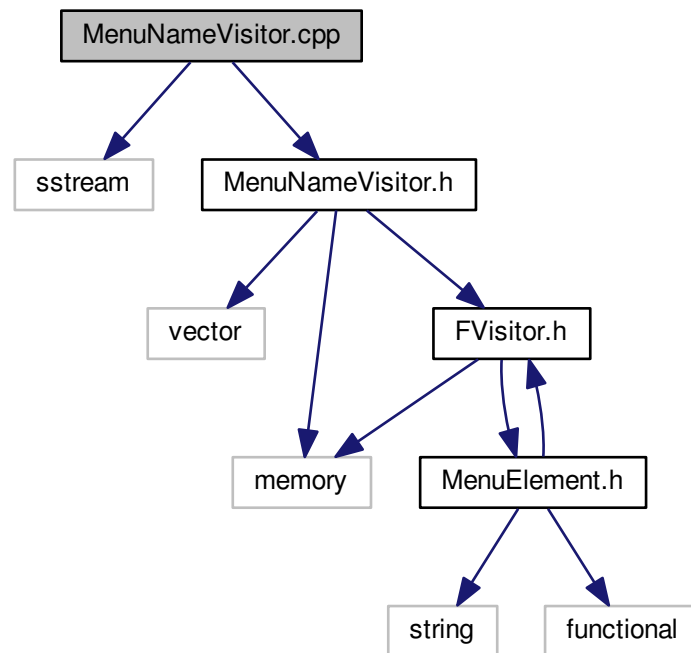
5.12 MenuNameVisitor.cpp File Reference

```

#include <sstream>
#include "MenuNameVisitor.h"

```

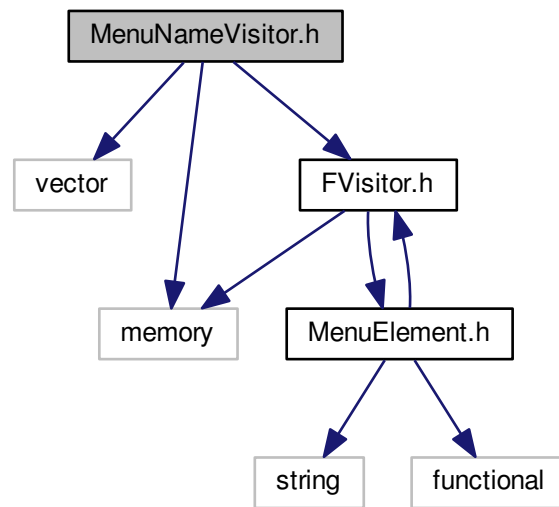
Include dependency graph for MenuNameVisitor.cpp:



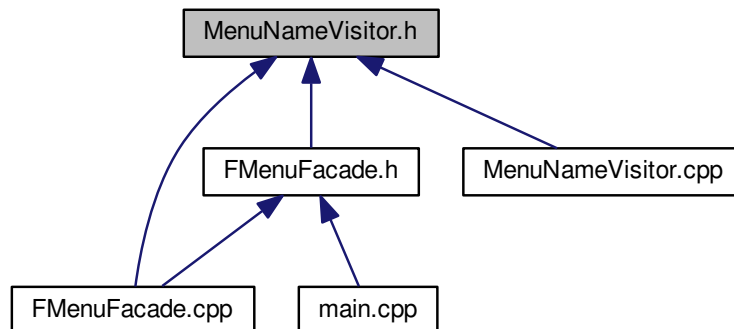
5.13 MenuNameVisitor.h File Reference

```
#include <vector>
#include <memory>
#include "FVisitor.h"
```

Include dependency graph for MenuNameVisitor.h:



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



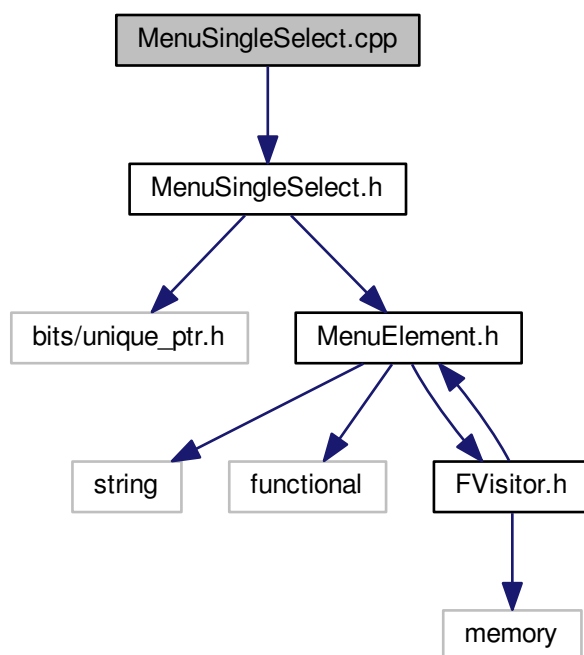
Classes

- class [MenuNameVisitor](#)

5.14 MenuSingleSelect.cpp File Reference

```
#include "MenuSingleSelect.h"
```

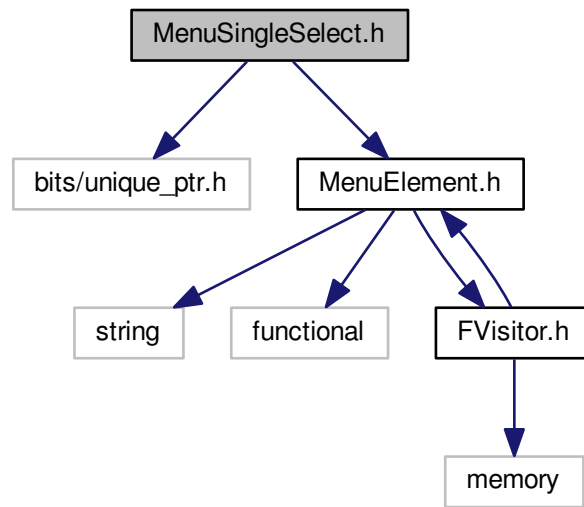
Include dependency graph for MenuSingleSelect.cpp:



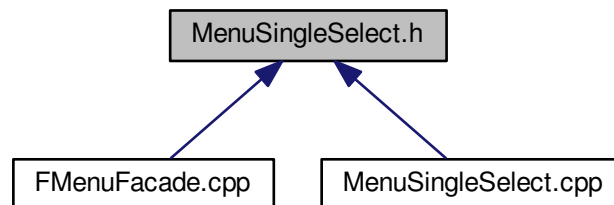
5.15 MenuSingleSelect.h File Reference

```
#include <bits/unique_ptr.h>
#include "MenuElement.h"
```

Include dependency graph for MenuSingleSelect.h:



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



Classes

- class [MenuSingleSelect](#)

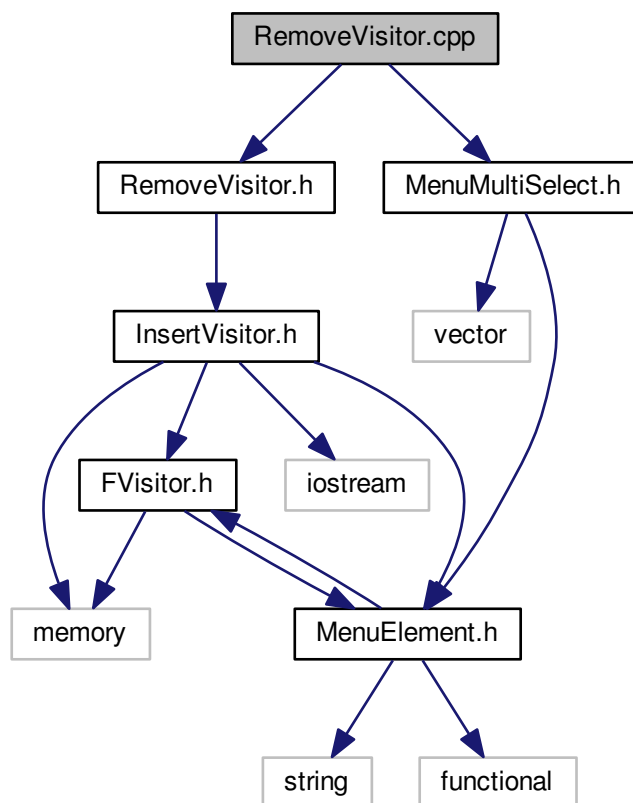
5.16 RemoveVisitor.cpp File Reference

```

#include "RemoveVisitor.h"
#include "MenuMultiSelect.h"

```

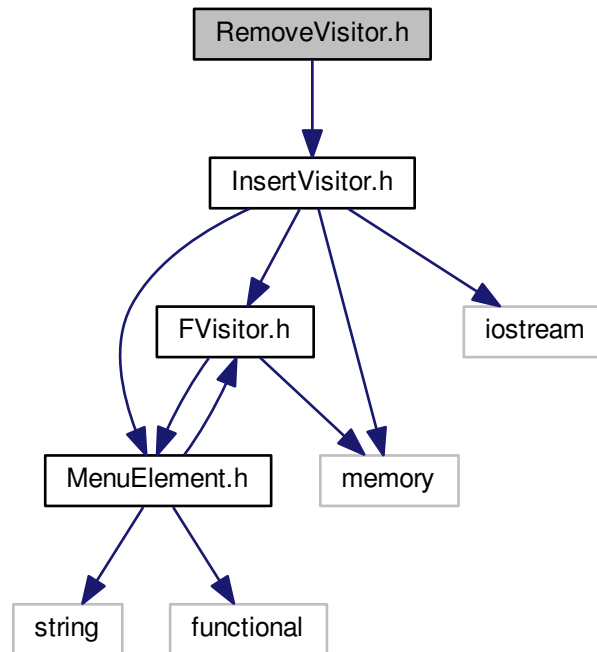

Include dependency graph for RemoveVisitor.cpp:



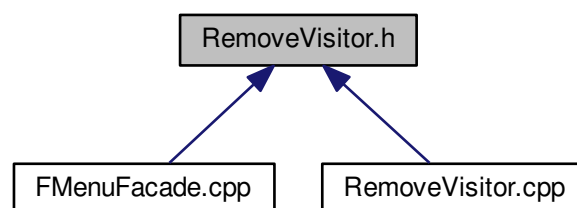
5.17 RemoveVisitor.h File Reference

```
#include "InsertVisitor.h"
```

Include dependency graph for RemoveVisitor.h:



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



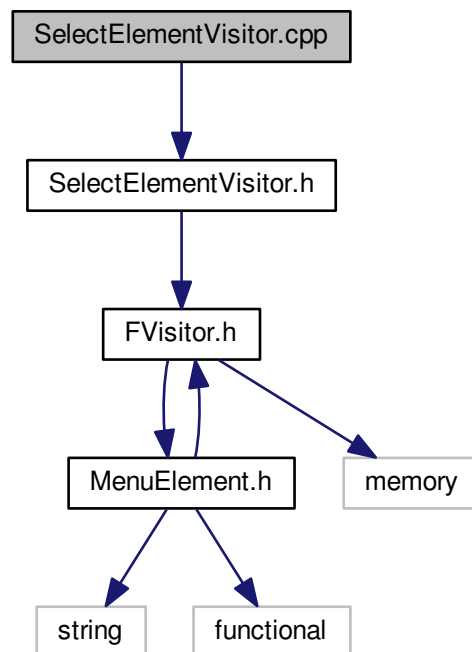
Classes

- class [RemoveVisitor](#)

5.18 SelectElementVisitor.cpp File Reference

```
#include "SelectElementVisitor.h"
```

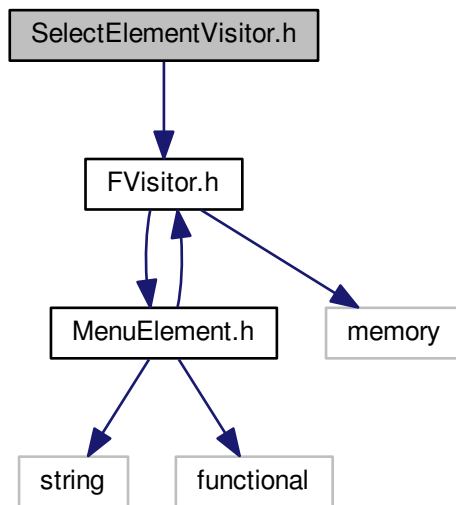
Include dependency graph for SelectElementVisitor.cpp:



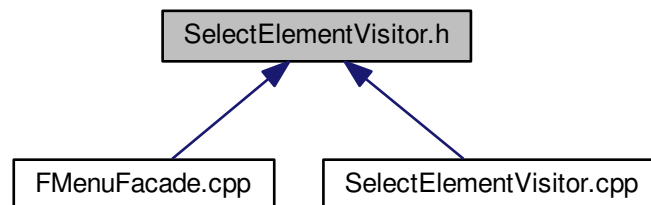
5.19 SelectElementVisitor.h File Reference

```
#include "FVisitor.h"
```

Include dependency graph for SelectElementVisitor.h:



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



Classes

- class [SelectElementVisitor](#)

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