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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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- ImportCommand 12
- MCreateProjectCommand 16
- PathCommand 19
- ReadHelpCommand 20
- RunCommand 22
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- VersionCommand 26

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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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File Index

3.1 File List

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

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Chapter 4

Class Documentation

4.1 BuildCommand Class Reference

Comado para compilar y enlazar un proyecto de Next.

`#include <build_command.hpp>`

Inheritance diagram for BuildCommand:

Collaboration diagram for BuildCommand:

Public Member Functions

- **BuildCommand** ()
  Constructor.
- ∼**BuildCommand** ()
  Destructor.
- int **execute** ()
  Metodo de la ejecucion del comando.

4.1.1 Detailed Description

Comado para compilar y enlazar un proyecto de Next.

4.1.2 Constructor & Destructor Documentation

4.1.2.1 BuildCommand()

`BuildCommand::BuildCommand ( )`

Constructor.

4.1.2.2 ~BuildCommand()

```
BuildCommand::~BuildCommand ( )
```

Destructor.

4.1.3 Member Function Documentation

4.1.3.1 execute()

```
int BuildCommand::execute ( )  [virtual]
```

Metodo de la ejecucion del comando.

Returns

int Estatus de ejecución

Implements **CommandBase** (p. 9).

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

- include/commands/ **build_command.hpp**

4.2 CommandBase Class Reference

Es la Clase de la que heredantodos los Comandos de Next.

```
#include <command_base.hpp>
```

Inheritance diagram for CommandBase:

Public Member Functions

- **CommandBase** ()
  Construsctor vacio de un Comando.
- virtual ~**CommandBase** ()=0
  Destructor de Comando.
- virtual int **execute** ()=0
  Metodo en donde se realiza la tarea del comando.

4.2.1 Detailed Description

Es la Clase de la que heredantodos los Comandos de Next.

4.2.2 Constructor & Destructor Documentation

4.2.2.1 CommandBase()

```
CommandBase::CommandBase ( )
```

Construsctor vacio de un Comando.

4.2.2.2 ~CommandBase()

```
virtual CommandBase::~CommandBase ( )  [pure virtual]
```

Destructor de Comando.

4.2.3 Member Function Documentation

4.2.3.1 execute()

```
virtual int CommandBase::execute ( )  [pure virtual]
```

Metodo en donde se realiza la tarea del comando.

Returns

int Estatus de devolucion del comando

Implemented in **MCreateProjectCommand** (p. 18), **PathCommand** (p. 20), **CreateProjectCommand** (p. 11), **BuildCommand** (p. 8), **ImportCommand** (p. 13), **UpgradeCommand** (p. 26), **RunCommand** (p. 22), **VersionCommand** (p. 27), and **ReadHelpCommand** (p. 21).

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

- include/ **command_base.hpp**

4.3 CreateProjectCommand Class Reference

Comando para la creacion de un nuevo Proyecto de Next.

```
#include <create_project_command.hpp>
```

Inheritance diagram for CreateProjectCommand:

Collaboration diagram for CreateProjectCommand:

Public Member Functions

- **CreateProjectCommand** ()

  Constructor vacio.
- **CreateProjectCommand** (std::string name_project)

  Constructor.
- ~**CreateProjectCommand** ()

  Destructor.
- int **execute** ()

  Ejecucion del comando.
- void **createDirs** ()

  Crea los directorios.
- void **copyFiles** ()

  Copia los archivos.
- void **moveFiles** ()

  Mueve los archivos.

4.3.1 Detailed Description

Comando para la creacion de un nuevo Proyecto de Next.

4.3.2 Constructor & Destructor Documentation

4.3.2.1 CreateProjectCommand() [1/2]

```
CreateProjectCommand::CreateProjectCommand ( )
```

Constructor vacio.

4.3.2.2 CreateProjectCommand() [2/2]

```
CreateProjectCommand::CreateProjectCommand (
            std::string name_project )
```

Constructor.

Parameters

name_project	

4.3.2.3 ~CreateProjectCommand()

```
CreateProjectCommand::~CreateProjectCommand ( )
```

Destructor.

4.3.3 Member Function Documentation

4.3.3.1 copyFiles()

```
void CreateProjectCommand::copyFiles ( )
```

Copia los archivos.

4.3.3.2 createDirs()

```
void CreateProjectCommand::createDirs ( )
```

Crea los directorios.

4.3.3.3 execute()

```
int CreateProjectCommand::execute ( )  [virtual]
```

Ejecucion del comando.

Returns

int

Implements **CommandBase** (p. 9).

4.3.3.4 moveFiles()

```
void CreateProjectCommand::moveFiles ( )
```

Mueve los archivos.

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

- include/commands/ **create_project_command.hpp**

4.4 ImportCommand Class Reference

Comado para clonar e importar otro proyecto de Next como una biblioteca.

`#include <import_command.hpp>`

Inheritance diagram for ImportCommand:

Collaboration diagram for ImportCommand:

Public Member Functions

- **ImportCommand** (std::string url_repo)
  Constructor.
- ∼**ImportCommand** ()
  Destructor.
- int **execute** ()
  Ejecucion del comando.

4.4.1 Detailed Description

Comado para clonar e importar otro proyecto de Next como una biblioteca.

4.4.2 Constructor & Destructor Documentation

4.4.2.1 ImportCommand()

```
ImportCommand::ImportCommand (
            std::string url_repo )
```

Constructor.

Parameters

url_repo	link del repositorio a clonar

4.4.2.2 ∼ImportCommand()

```
ImportCommand::~ImportCommand ( )
```

Destructor.

4.4.3 Member Function Documentation

4.4.3.1 execute()

```
int ImportCommand::execute ( )  [virtual]
```

Ejecucion del comando.

Returns

int

Implements **CommandBase** (p. 9).

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

- include/commands/ **import_command.hpp**

4.5 ManagerCommand Class Reference

Manager que controla la creacion y ejecucion de los comandos.

```
#include <manager_command.hpp>
```

Public Member Functions

- **ManagerCommand** ()
  Constructor vacio del Manager.
- ∼**ManagerCommand** ()
  *Destructor de **ManagerCommand** (p. 13).*
- void **execute** ()
  Metodo en el que se ejecuta los comandos.
- void **initialize** (int argc, char const ∗argv[ ])
  Metodo de inicializacion del Manager, aqui se crean los comandos.
- constexpr bool **isFlag** (char const ∗arg)
  Metodo que evalua si un argumento es una bandera.
- void **createFlag** (char const ∗arg)
  Metodo responsable de la creacion de los comandos correspondientes a las Banderas.

4.5.1 Detailed Description

Manager que controla la creacion y ejecucion de los comandos.

Estructura donde se almacenan los comandos a realizar Comandos que se pueden realizar

4.5.2 Constructor & Destructor Documentation

4.5.2.1 ManagerCommand()

```
ManagerCommand::ManagerCommand ( )
```

Constructor vacio del Manager.

4.5.2.2 ~ManagerCommand()

```
ManagerCommand::~ManagerCommand ( )
```

Destructor de **ManagerCommand** (p. 13).

4.5.3 Member Function Documentation

4.5.3.1 createFlag()

```
void ManagerCommand::createFlag (
            char const * arg )  [inline]
```

Metodo responsable de la creacion de los comandos correspondientes a las Banderas.

Parameters

arg	

Here is the call graph for this function:

4.5.3.2 execute()

```
void ManagerCommand::execute ( )
```

Metodo en el que se ejecuta los comandos.

4.5.3.3 initialize()

```
void ManagerCommand::initialize (
            int argc,
            char const * argv[] )
```

Metodo de inicializacion del Manager, aqui se crean los comandos.

Parameters

argc	Numero de argumantos de la linea de comandos
argv	Argumentos de la linea de comandos

4.5.3.4 isFlag()

```
constexpr bool ManagerCommand::isFlag (
            char const * arg )  [inline], [constexpr]
```

Metodo que evalua si un argumento es una bandera.

Parameters

arg	Argumento a evaluar

Returns

true

false

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

- include/ **manager_command.hpp**

4.6 MCreateProjectCommand Class Reference

Comando para la creacion de un nuevo Proyecto de Next.

`#include <create_project_command.hpp>`

Inheritance diagram for MCreateProjectCommand:

Collaboration diagram for MCreateProjectCommand:

Public Member Functions

- **MCreateProjectCommand** ()
  Constructor vacio.
- **MCreateProjectCommand** (std::string name_project)
  Constructor.
- ~**MCreateProjectCommand** ()
  Destructor.
- int **execute** ()
  Ejecucion del comando.
- void **createDirs** ()
  Crea los directorios.
- void **copyFiles** ()
  Copia los archivos.
- void **moveFiles** ()
  Mueve los archivos.

4.6.1 Detailed Description

Comando para la creacion de un nuevo Proyecto de Next.

4.6.2 Constructor & Destructor Documentation

4.6.2.1 MCreateProjectCommand() [1/2]

```
MCreateProjectCommand::MCreateProjectCommand ( )
```

Constructor vacio.

4.6.2.2 MCreateProjectCommand() [2/2]

```
MCreateProjectCommand::MCreateProjectCommand (
            std::string name_project )
```

Constructor.

Parameters

name_project	

4.6.2.3 ~MCreateProjectCommand()

```
MCreateProjectCommand::~MCreateProjectCommand ( )
```

Destructor.

4.6.3 Member Function Documentation

4.6.3.1 copyFiles()

```
void MCreateProjectCommand::copyFiles ( )
```

Copia los archivos.

4.6.3.2 createDirs()

```
void MCreateProjectCommand::createDirs ( )
```

Crea los directorios.

4.6.3.3 execute()

```
int MCreateProjectCommand::execute ( )  [virtual]
```

Ejecucion del comando.

Returns

int

Implements **CommandBase** (p. 9).

4.6.3.4 moveFiles()

```
void MCreateProjectCommand::moveFiles ( )
```

Mueve los archivos.

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

- include/commands/ **create_project_command.hpp**

4.7 NextData Class Reference

Clase que almacena los datos necesarios para el uso de Next por ejemplo 7 La ubicacion en el sistema donde esta instalado Next.

```
#include <next_data.hpp>
```

Static Public Member Functions

- static **NextData** * **getInstance** ()

Public Attributes

- std::string **path** = ""

4.7.1 Detailed Description

Clase que almacena los datos necesarios para el uso de Next por ejemplo 7 La ubicacion en el sistema donde esta instalado Next.

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

- include/ **next_data.hpp**

4.8 PathCommand Class Reference

Comado que localiza la ruta en la que esta instalado Next.

`#include <path_command.hpp>`

Inheritance diagram for PathCommand:

Collaboration diagram for PathCommand:

Public Member Functions

- **PathCommand** ()
  Constructor.
- ∼**PathCommand** ()
  Destructor.
- int **execute** ()
  Ejecucion del Comando.

4.8.1 Detailed Description

Comado que localiza la ruta en la que esta instalado Next.

4.8.2 Constructor & Destructor Documentation

4.8.2.1 PathCommand()

```
PathCommand::PathCommand ( )
```

Constructor.

4.8.2.2 ~PathCommand()

```
PathCommand::~PathCommand ( )
```

Destructor.

4.8.3 Member Function Documentation

4.8.3.1 execute()

```
int PathCommand::execute ( )  [virtual]
```

Ejecucion del Comando.

Returns

int

Implements **CommandBase** (p. 9).

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

- include/commands/ **path_command.hpp**

4.9 ReadHelpCommand Class Reference

Comado para leer el archivo de ayuda "help".

```
#include <read_help_command.hpp>
```

Inheritance diagram for ReadHelpCommand:

Collaboration diagram for ReadHelpCommand:

Public Member Functions

- **ReadHelpCommand** ()
  Constructor.
- ~**ReadHelpCommand** ()
  Destructor.
- int **execute** ()
  Ejecucion del comando.

4.9.1 Detailed Description

Comado para leer el archivo de ayuda "help".

4.9.2 Constructor & Destructor Documentation

4.9.2.1 ReadHelpCommand()

```
ReadHelpCommand::ReadHelpCommand ( )
```

Constructor.

4.9.2.2 ~ReadHelpCommand()

```
ReadHelpCommand::~ReadHelpCommand ( )
```

Destructor.

4.9.3 Member Function Documentation

4.9.3.1 execute()

```
int ReadHelpCommand::execute ( )  [virtual]
```

Ejecucion del comando.

Returns

int

Implements **CommandBase** (p. 9).

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

- include/commands/ **read_help_command.hpp**

4.10 RunCommand Class Reference

COmando para ejecutar el proyecto de Next.

`#include <run_command.hpp>`

Inheritance diagram for RunCommand:

Collaboration diagram for RunCommand:

Public Member Functions

- **RunCommand** ()
  Constructor.
- ∼**RunCommand** ()
  Destructor.
- int **execute** ()
  Ejecucion del comando.

4.10.1 Detailed Description

COmando para ejecutar el proyecto de Next.

4.10.2 Constructor & Destructor Documentation

4.10.2.1 RunCommand()

`RunCommand::RunCommand ( )`

Constructor.

4.10.2.2 ∼RunCommand()

`RunCommand::∼RunCommand ( )`

Destructor.

4.10.3 Member Function Documentation

4.10.3.1 execute()

```
int RunCommand::execute ( )  [virtual]
```

Ejecucion del comando.

Returns

int

Implements **CommandBase** (p. 9).

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

- include/commands/ **run_command.hpp**

4.11 StackCommand Class Reference

Clase que almacena los Comandos a realizar.

```
#include <stack_command.hpp>
```

Public Member Functions

- **StackCommand** ()
  Constructor vacio.
- ∼**StackCommand** ()
  Destructor.
- void **append** (**CommandBase** ∗)
  Metod para añadir un nuevo Comando.
- void **undo** ()
  Metodo para eliminar un comando.
- void **clear** ()
  Metodo para borrar todos los comandos.
- void **execute** ()
  Metodo para ejecutar los comandos almacenados.

Public Attributes

- std::vector< **CommandBase** ∗ > **stack_tasks**
  Vector de los comandos.

4.11.1 Detailed Description

Clase que almacena los Comandos a realizar.

4.11.2 Constructor & Destructor Documentation

4.11.2.1 StackCommand()

```
StackCommand::StackCommand ( )
```

Constructor vacio.

4.11.2.2 ~StackCommand()

```
StackCommand::~StackCommand ( )
```

Destructor.

4.11.3 Member Function Documentation

4.11.3.1 append()

```
void StackCommand::append (
            CommandBase *  )
```

Metod para añadir un nuevo Comando.

Here is the caller graph for this function:

4.11.3.2 clear()

```
void StackCommand::clear ( )
```

Metodo para borrar todos los comandos.

4.11.3.3 execute()

```
void StackCommand::execute ( )
```

Metodo para ejecutar los comandos almacenados.

4.11.3.4 undo()

```
void StackCommand::undo ( )
```

Metodo para eliminar un comando.

4.11.4 Member Data Documentation

4.11.4.1 stack_tasks

```
std::vector< CommandBase *> StackCommand::stack_tasks
```

Vector de los comandos.

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

- include/ **stack_command.hpp**

4.12 UpgradeCommand Class Reference

Comando para actualizar Next.

```
#include <upgrade_command.hpp>
```

Inheritance diagram for UpgradeCommand:

Collaboration diagram for UpgradeCommand:

Public Member Functions

- **UpgradeCommand** ()
  Constructor.
- ∼**UpgradeCommand** ()
  Destructor.
- int **execute** ()
  Ejeucion del comando.

4.12.1 Detailed Description

Comando para actualizar Next.

4.12.2 Constructor & Destructor Documentation

4.12.2.1 UpgradeCommand()

```
UpgradeCommand::UpgradeCommand ( )
```

Constructor.

4.12.2.2 ~UpgradeCommand()

```
UpgradeCommand::~UpgradeCommand ( )
```

Destructor.

4.12.3 Member Function Documentation

4.12.3.1 execute()

```
int UpgradeCommand::execute ( )  [virtual]
```

Ejeucion del comando.

Returns

int

Implements **CommandBase** (p. 9).

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

- include/commands/ **upgrade_command.hpp**

4.13 VersionCommand Class Reference

COmado para mostrar la version de Next.

```
#include <version_command.hpp>
```

Inheritance diagram for VersionCommand:

Collaboration diagram for VersionCommand:

Public Member Functions

- **VersionCommand** ()
  Constructor.
- ∼**VersionCommand** ()
  Destuctor.
- int **execute** ()
  Ejecucion del comando.

4.13.1 Detailed Description

COmado para mostrar la version de Next.

4.13.2 Constructor & Destructor Documentation

4.13.2.1 VersionCommand()

```
VersionCommand::VersionCommand ( )
```

Constructor.

4.13.2.2 ∼VersionCommand()

```
VersionCommand::∼VersionCommand ( )
```

Destuctor.

4.13.3 Member Function Documentation

4.13.3.1 execute()

```
int VersionCommand::execute ( )  [virtual]
```

Ejecucion del comando.

Returns

int

Implements **CommandBase** (p. 9).

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

- include/commands/ **version_command.hpp**

Chapter 5

File Documentation

5.1 include/command_base.hpp File Reference

```
#include <string>
#include <vector>
#include <memory>
```

Include dependency graph for command_base.hpp:

5.2 include/commands/build_command.hpp File Reference

```
#include <iostream>
#include <string>
#include <command_base.hpp>
#include <next_data.hpp>
#include <tools/exec.hpp>
```

Include dependency graph for build_command.hpp: This graph shows which files directly or indirectly include this file:

Classes

- class **BuildCommand**

  Comado para compilar y enlazar un proyecto de Next.

5.2.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez `rafa.zamora.rals@gmail.com`

Version

2.0.0

Date

2021-02-08

Copyright

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5.3 include/commands/create_project_command.hpp File Reference

```
#include <iostream>
#include <string>
#include <command_base.hpp>
#include <next_data.hpp>
#include <tools/exec.hpp>
```

Include dependency graph for create_project_command.hpp: This graph shows which files directly or indirectly include this file:

Classes

- class **CreateProjectCommand**

  Comando para la creacion de un nuevo Proyecto de Next.
- class **MCreateProjectCommand**

  Comando para la creacion de un nuevo Proyecto de Next.

5.3.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez `rafa.zamora.rals@gmail.com`

Version

2.0.0

Date

2021-02-08

Copyright

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5.4 include/commands/import_command.hpp File Reference

```
#include <iostream>
#include <string>
#include <command_base.hpp>
#include <next_data.hpp>
#include <tools/exec.hpp>
```

Include dependency graph for import_command.hpp: This graph shows which files directly or indirectly include this file:

Classes

- class **ImportCommand**

  Comado para clonar e importar otro proyecto de Next como una biblioteca.

5.4.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez rafa.zamora.rals@gmail.com

Version

2.0.0

Date

2021-02-08

Copyright

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5.5 include/commands/path_command.hpp File Reference

```
#include <iostream>
#include <fstream>
#include <string>
#include <vector>
#include <command_base.hpp>
#include <next_data.hpp>
```

Include dependency graph for path_command.hpp: This graph shows which files directly or indirectly include this file:

Classes

- class **PathCommand**

  Comado que localiza la ruta en la que esta instalado Next.

5.5.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez rafa.zamora.rals@gmail.com

Version

2.0.0

Date

2021-02-08

Copyright

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5.6 include/commands/read_help_command.hpp File Reference

```
#include <iostream>
#include <fstream>
#include <string>
#include <command_base.hpp>
#include <next_data.hpp>
```

Include dependency graph for read_help_command.hpp: This graph shows which files directly or indirectly include this file:

Classes

- class **ReadHelpCommand**

  Comado para leer el archivo de ayuda "help".

5.6.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez `rafa.zamora.rals@gmail.com`

Version

2.0.0

Date

2021-02-08

Copyright

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5.7 include/commands/run_command.hpp File Reference

```
#include <iostream>
#include <string>
#include <command_base.hpp>
#include <next_data.hpp>
#include <tools/exec.hpp>
```

Include dependency graph for run_command.hpp: This graph shows which files directly or indirectly include this file:

Classes

- class **RunCommand**

  COmando para ejecutar el proyecto de Next.

5.7.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez rafa.zamora.rals@gmail.com

Version

2.0.0

Date

2021-02-08

Copyright

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5.8 include/commands/upgrade_command.hpp File Reference

```
#include <iostream>
#include <string>
#include <command_base.hpp>
#include <next_data.hpp>
#include <tools/exec.hpp>
```

Include dependency graph for upgrade_command.hpp: This graph shows which files directly or indirectly include this file:

Classes

- class **UpgradeCommand**
  Comando para actualizar Next.

5.8.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez rafa.zamora.rals@gmail.com

Version

2.0.0

Date

2021-02-08

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5.9 include/commands/version_command.hpp File Reference

```
#include <iostream>
#include <fstream>
#include <string>
#include <command_base.hpp>
#include <next_data.hpp>
```

Include dependency graph for version_command.hpp: This graph shows which files directly or indirectly include this file:

Classes

- class **VersionCommand**

  COmado para mostrar la version de Next.

5.9.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez rafa.zamora.rals@gmail.com

Version

2.0.0

Date

2021-02-08

Copyright

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5.10 include/manager_command.hpp File Reference

```
#include <string>
#include <stack_command.hpp>
#include <commands/read_help_command.hpp>
#include <commands/version_command.hpp>
#include <commands/path_command.hpp>
#include <commands/create_project_command.hpp>
#include <commands/build_command.hpp>
#include <commands/run_command.hpp>
#include <commands/import_command.hpp>
#include <commands/upgrade_command.hpp>
```

Include dependency graph for manager_command.hpp:

Classes

- class **ManagerCommand**

  Manager que controla la creacion y ejecucion de los comandos.

5.10.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez rafa.zamora.rals@gmail.com

Version

2.0.0

Date

2021-02-08

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5.11 include/next_data.hpp File Reference

```
#include <iostream>
#include <string>
```

Include dependency graph for next_data.hpp: This graph shows which files directly or indirectly include this file:

Classes

- class **NextData**

  Clase que almacena los datos necesarios para el uso de Next por ejemplo 7 La ubicacion en el sistema donde esta instalado Next.

5.11.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez rafa.zamora.rals@gmail.com

Version

2.0.0

Date

2021-02-08

Copyright

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5.12 include/stack_command.hpp File Reference

```
#include <vector>
#include <command_base.hpp>
```

Include dependency graph for stack_command.hpp: This graph shows which files directly or indirectly include this file:

Classes

- class **StackCommand**

  Clase que almacena los Comandos a realizar.

5.12.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez rafa.zamora.rals@gmail.com

Version

2.0.0

Date

2021-02-08

Copyright

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5.13 include/tools/exec.hpp File Reference

```
#include <string>
#include <fstream>
#include <iostream>
```

Include dependency graph for exec.hpp: This graph shows which files directly or indirectly include this file:

5.13.1 Detailed Description

Author

Oswaldo Rafael Zamora Ramirez rafa.zamora.rals@gmail.com

Version

2.0.0

Date

2021-02-08

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