Test

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src

#Source Folder
This folder contains all source files for the project. :sunglasses:
Structure of the Project
This is the structure of the project, when we are complete with a task we can put a :heavy_check_mark: next to it. think that we should work outside the folders, and then copy files into the folders when the tasks are done.
Task1
This task is concerned with the unit hierarchy, and therefore includes the creational design patterns.
Task2
This task is about the Game Master and the U
Task3
This task is concerned with tying the whole system together.
Task4
I have no idea what we have to do for task 4 yet :joy:
Task5 (Bonus)

This is a bonus task for getting graphics to work in the game.

2 src

Hierarchical Index

2.1 Class Hierarchy

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

m	8
t	14
Monster	10
Elemental	7
Goblin	
Ogre	
Player	
Mage	
Soldier	
Thief	13
tFactory	16
MagicFactory	9
PiercingFactory	

Hierarchical Index

Class Index

3.1 Class List

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

Element	ai	
	A concrete Unit (p. 14); Inherits from Monster (p. 10)	7
Form .		8
Goblin		
	A concrete Unit (p. 14); Inherits from Monster (p. 10)	8
Mage .		9
MagicFa	actory	9
Monster		
	Is the class from which all concrete Monsters derive inherites from Unit (p. 14)	10
Ogre		
	A concrete Unit (p. 14); Inherits from Monster (p. 10)	10
Piercing	Factory	11
Player		
-	Is the class from which all concrete Monsters derive inherites from Unit (p. 14)	12
Soldier	"	
	A concrete Unit (p. 14); Inherits from Player (p. 12)	13
Thief		
	A concrete Unit (p. 14); Inherits from Player (p. 12)	13
Unit		
	Is the class from which all concrete Units derive	14
UnitFact	torv	16

6 Class Index

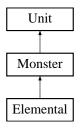
Class Documentation

4.1 Elemental Class Reference

A concrete **Unit** (p. 14); Inherits from **Monster** (p. 10).

```
#include <Elemental.h>
```

Inheritance diagram for Elemental:



Public Member Functions

• Elemental ()

Additional Inherited Members

4.1.1 Detailed Description

A concrete **Unit** (p. 14); Inherits from **Monster** (p. 10).

See also

Monster (p. 10) ()

4.1.2 Constructor & Destructor Documentation

4.1.2.1 Elemental::Elemental ()

Constructor for **Elemental** (p. 7) class sets the stats and respective "class" of **Elemental** (p. 7).

- Elemental.h
- Elemental.cpp

4.2 Form Class Reference

Public Member Functions

- Form (int inputMaxX=300, int inputMaxY=80)
- void **putPixel** (int x, int y)
- void flush ()
- void draw ()

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

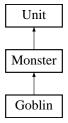
• Task5(Bonus)/Form.h

4.3 Goblin Class Reference

A concrete **Unit** (p. 14); Inherits from **Monster** (p. 10).

```
#include <Goblin.h>
```

Inheritance diagram for Goblin:



Public Member Functions

· Goblin ()

Additional Inherited Members

4.3.1 Detailed Description

A concrete **Unit** (p. 14); Inherits from **Monster** (p. 10).

See also

Monster (p. 10) ()

4.3.2 Constructor & Destructor Documentation

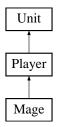
4.3.2.1 Goblin::Goblin ()

Constructor for Goblin (p. 8) class sets the stats and respective "class" of Goblin (p. 8).

- · Goblin.h
- Goblin.cpp

4.4 Mage Class Reference

Inheritance diagram for Mage:



Public Member Functions

· Mage ()

Additional Inherited Members

4.4.1 Constructor & Destructor Documentation

4.4.1.1 Mage::Mage()

Constructor for Mage (p. 9) class sets the stats and respective "class" of Mage (p. 9).

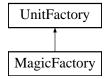
The documentation for this class was generated from the following files:

- · Mage.h
- · Mage.cpp

4.5 MagicFactory Class Reference

#include <MagicFactory.h>

Inheritance diagram for MagicFactory:



Public Member Functions

- Unit * makeLight ()
- Unit * makeDark ()

4.5.1 Detailed Description

DOXYGEN COMMENT HERE.

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

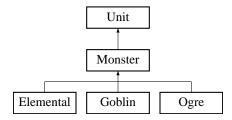
MagicFactory.h

4.6 Monster Class Reference

Is the class from which all concrete Monsters derive inherites from Unit (p. 14).

#include <Monster.h>

Inheritance diagram for Monster:



Public Member Functions

· Unit * clone ()

Implementation of inherited virtual function.

void attack (Unit &inputUnit)

Implementation of inherited virtual function.

Additional Inherited Members

4.6.1 Detailed Description

Is the class from which all concrete Monsters derive inherites from Unit (p. 14).

See also

Unit (p. 14)

4.6.2 Member Function Documentation

```
4.6.2.1 Unit * Monster::clone() [virtual]
```

Implementation of inherited virtual function.

Returns

Unit* containing a deep copy of this object.

Implements Unit (p. 15).

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

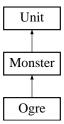
- · Monster.h
- · Monster.cpp

4.7 Ogre Class Reference

A concrete Unit (p. 14); Inherits from Monster (p. 10).

#include <Ogre.h>

Inheritance diagram for Ogre:



Public Member Functions

• Ogre ()

Additional Inherited Members

4.7.1 Detailed Description

A concrete Unit (p. 14); Inherits from Monster (p. 10).

See also

Monster (p. 10) ()

4.7.2 Constructor & Destructor Documentation

```
4.7.2.1 Ogre::Ogre ( )
```

Constructor for **Ogre** (p. 10) class sets the stats and respective "class" of Orgre.

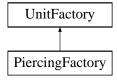
The documentation for this class was generated from the following files:

- · Ogre.h
- · Ogre.cpp

4.8 PiercingFactory Class Reference

#include <PiercingFactory.h>

Inheritance diagram for PiercingFactory:



Public Member Functions

- Unit * makeLight ()
- Unit * makeDark ()

4.8.1 Detailed Description

DOXYGEN COMMENT HERE.

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

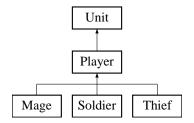
· PiercingFactory.h

4.9 Player Class Reference

Is the class from which all concrete Monsters derive inherites from Unit (p. 14).

```
#include <Player.h>
```

Inheritance diagram for Player:



Public Member Functions

· Unit * clone ()

Implementation of inherited virtual function.

void attack (Unit &inputUnit)

Implementation of inherited virtual function.

Additional Inherited Members

4.9.1 Detailed Description

Is the class from which all concrete Monsters derive inherites from Unit (p. 14).

See also

Unit (p. 14)

4.9.2 Member Function Documentation

```
4.9.2.1 Unit * Player::clone( ) [virtual]
```

Implementation of inherited virtual function.

Returns

Unit* containing a deep copy of this object.

Implements Unit (p. 15).

- · Player.h
- Player.cpp

4.10 Soldier Class Reference

A concrete Unit (p. 14); Inherits from Player (p. 12).

#include <Mage.h>

Inheritance diagram for Soldier:



Public Member Functions

• Soldier ()

Additional Inherited Members

4.10.1 Detailed Description

A concrete Unit (p. 14); Inherits from Player (p. 12).

See also

Player (p. 12) ()

4.10.2 Constructor & Destructor Documentation

```
4.10.2.1 Soldier::Soldier ( )
```

Constructor for Soldier (p. 13) class sets the stats and respective "class" of Soldier (p. 13).

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

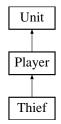
- Soldier.h
- · Soldier.cpp

4.11 Thief Class Reference

A concrete Unit (p. 14); Inherits from Player (p. 12).

#include <Thief.h>

Inheritance diagram for Thief:



Public Member Functions

• Thief ()

Additional Inherited Members

4.11.1 Detailed Description

A concrete **Unit** (p. 14); Inherits from **Player** (p. 12).

See also

Player (p. 12) ()

4.11.2 Constructor & Destructor Documentation

4.11.2.1 Thief::Thief ()

Constructor for Thief (p. 13) class sets the stats and respective "class" of Thief (p. 13).

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

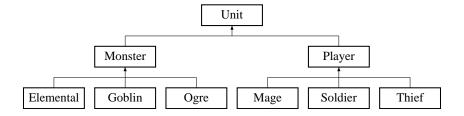
- Thief.h
- · Thief.cpp

4.12 Unit Class Reference

Is the class from which all concrete Units derive.

#include <Unit.h>

Inheritance diagram for Unit:



Public Member Functions

• virtual \sim **Unit** ()

4.12 Unit Class Reference 15

virtual destructor

• virtual **Unit** * **clone** ()=0

pure virtual function that allows prototypes of Units to be clone.

• virtual void attack (Unit &inputUnit)=0

pure virtual function that allows prototypes of Units to be clone.

· int getDamage ()

Public interface to damage member variable.

• int getHealth ()

Public interface to health member variable.

· string getClass ()

Public interface to "class" member variable.

Protected Member Functions

• void setDamage (int inputDamage)

Protected interface to modify damage member.

• void **setHealth** (int inputHealth)

Protected interface to modify health member.

void setClass (string inputClass)

Protected interface to modify "class" member.

Protected Attributes

- · string unitClass
- int damage
- · int health

4.12.1 Detailed Description

Is the class from which all concrete Units derive.

4.12.2 Member Function Documentation

```
4.12.2.1 virtual void Unit::attack (Unit & inputUnit) [pure virtual]
```

pure virtual function that allows prototypes of Units to be clone.

Returns

a new **Unit** (p. 14) cloned from member variables.

Implemented in Monster (p. 10), and Player (p. 12).

```
4.12.2.2 virtual Unit* Unit::clone() [pure virtual]
```

pure virtual function that allows prototypes of Units to be clone.

Returns

a new Unit (p. 14) cloned from member variables.

Implemented in Monster (p. 10), and Player (p. 12).

```
4.12.2.3 string Unit::getClass ( )
```

Public interface to "class" member variable.

Returns

string containing the class of object.

```
4.12.2.4 int Unit::getDamage ( )
```

Public interface to damage member variable.

Returns

int containing value of damage.

```
4.12.2.5 int Unit::getHealth ( )
```

Public interface to health member variable.

Returns

int containing value of health.

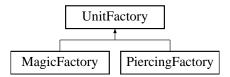
The documentation for this class was generated from the following files:

- Unit.h
- Unit.cpp

4.13 UnitFactory Class Reference

#include <BludgeoningFactory.h>

Inheritance diagram for UnitFactory:



Public Member Functions

- Unit * makeLight ()
- Unit * makeDark ()
- virtual Unit * makeLight ()=0
- virtual Unit * makeDark ()=0

4.13.1 Detailed Description

DOXYGEN COMMENT HERE.

- · BludgeoningFactory.h
- · UnitFactory.h