DungeonCrawler

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Chapter 1

Source content

This folder should contain only hpp/cpp files of your implementation. You can also place hpp files in a separate directory include.

You can create a summary of files here. It might be useful to describe file relations, and brief summary of their content.

2 Source content

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

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4 Hierarchical Index

Chapter 3

Class Index

3.1 Class List

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

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Item		
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Map Monster		17
	Inherit from GameBlock class, and define the Monster attribute and function	20
Player		
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PosType Potion		31
	The potion class inherit from Item abstract class, and define the health potion	32
Road		
	Road Class inheriting from GameBlock, with fixed speed and BlockType	35
Turn Wall		37
	Wall Class inheriting from GameBlock, with fixed speed and BlockType	39
Weapon		
	Inherit from Item abstract class, and define the weapon	40

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Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

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Chapter 5

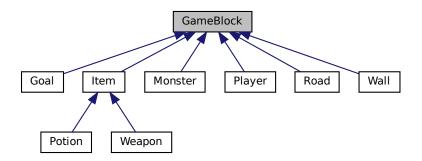
Class Documentation

5.1 GameBlock Class Reference

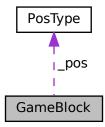
The base class of this application. Game Block is a unit of the map.

#include <GameBlock.hpp>

Inheritance diagram for GameBlock:



Collaboration diagram for GameBlock:



Public Member Functions

```
    GameBlock (PosType pos, int speed, BlockType type)
```

GameBlock Constructor.

• GameBlock ()

Default constructor.

• PosType Get_Pos () const

Get the position of the GameBlock.

• int Get_Speed () const

Get the speed of the GameBlock.

• BlockType Get_Type () const

Get the type of the GameBlock.

void Set_pos (PosType &pos)

Set the position of the GameBlock.

Public Attributes

```
    PosType _pos
```

- sf::Texture _Texture
- sf::Sprite _Sprite

Protected Attributes

- int _speed
- BlockType _type

5.1.1 Detailed Description

The base class of this application. Game Block is a unit of the map.

5.1.2 Constructor & Destructor Documentation

5.1.2.1 GameBlock() [1/2]

```
GameBlock::GameBlock (
          PosType pos,
          int speed,
          BlockType type )
```

GameBlock Constructor.

Create a new GameBlock from PosType, Speed and BlockType

Parameters

pos	Position of the GameBlock
speed	Speed of the GameBlock
type	BlockType of the GameBlock

5.1.2.2 GameBlock() [2/2]

```
GameBlock::GameBlock ( ) [inline]
```

Default constructor.

5.1.3 Member Function Documentation

5.1.3.1 Get_Pos()

```
PosType GameBlock::Get_Pos ( ) const
```

Get the position of the GameBlock.

Returns

the position of the GameBlock

5.1.3.2 Get_Speed()

```
int GameBlock::Get_Speed ( ) const
```

Get the speed of the GameBlock.

Returns

the speed of the GameBlock

5.1.3.3 Get_Type()

```
BlockType GameBlock::Get_Type ( ) const
```

Get the type of the GameBlock.

Returns

the type of the GameBlock

5.1.3.4 Set_pos()

Set the position of the GameBlock.

Parameters

pos position of the GameBlock

5.1.4 Member Data Documentation

5.1.4.1 _pos

PosType GameBlock::_pos

5.1.4.2 _speed

int GameBlock::_speed [protected]

5.1.4.3 _Sprite

sf::Sprite GameBlock::_Sprite

5.1.4.4 _Texture

sf::Texture GameBlock::_Texture

5.1.4.5 _type

BlockType GameBlock::_type [protected]

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

- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/GameBlock.hpp
- $\bullet \ \ / home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/GameBlock.cpp$

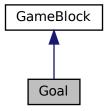
5.2 Goal Class Reference

5.2 Goal Class Reference

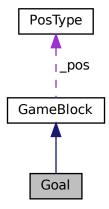
Goal Class inheriting from GameBlock, with fixed speed and BlockType.

#include <Goal.hpp>

Inheritance diagram for Goal:



Collaboration diagram for Goal:



Public Member Functions

Goal (PosType pos)
 Goal constructor.

Additional Inherited Members

5.2.1 Detailed Description

Goal Class inheriting from GameBlock, with fixed speed and BlockType.

5.2.2 Constructor & Destructor Documentation

5.2.2.1 Goal()

Goal constructor.

Parameters

pos Position of the Goal

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

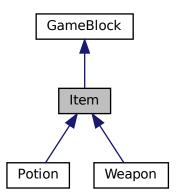
• /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Goal.hpp

5.3 Item Class Reference

The item class inherit from Game Block and is the base abstract class for all item.

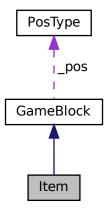
```
#include <Item.hpp>
```

Inheritance diagram for Item:



5.3 Item Class Reference 15

Collaboration diagram for Item:



Public Member Functions

- Item (PosType pos, const std::string &name, ItemTypeEnum type)
 Item constructor.
- virtual void Useltem (Player &player)=0

Pure Virtual function UseItem.

• virtual ∼ltem ()

Item destructor.

Protected Attributes

- std::string name_
- ItemTypeEnum type_

Additional Inherited Members

5.3.1 Detailed Description

The item class inherit from Game Block and is the base abstract class for all item.

5.3.2 Constructor & Destructor Documentation

5.3.2.1 Item()

Item constructor.

Parameters

pos	Position of the Item
name	Name of the Item
type	ItemType of the Item

5.3.2.2 ∼ltem()

```
virtual Item::~Item ( ) [inline], [virtual]
```

Item destructor.

5.3.3 Member Function Documentation

5.3.3.1 Useltem()

Pure Virtual function UseItem.

Parameters

player	Player on wich the Item will be use
--------	-------------------------------------

Implemented in Weapon, and Potion.

5.3.4 Member Data Documentation

5.3.4.1 name_

```
std::string Item::name_ [protected]
```

5.3.4.2 type_

```
ItemTypeEnum Item::type_ [protected]
```

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

- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Item.hpp
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Item.cpp

5.4 Map Class Reference

```
#include <Map.hpp>
```

Public Member Functions

```
• Map (const std::string &file_name)
```

The map constructor.

- Map ()
- void ReadMap (const std::string &file_name)

read the map from text file

BlockType GetBlock (PosType pos)

Get BlockType of the specific pos.

std::vector< std::shared_ptr< Monster > > GetMonsters ()

Get vector of Monsters on the Map object.

std::vector< std::shared_ptr< ltem > > GetItems ()

Get BlockType of the specific pos.

• std::vector< std::vector< std::shared_ptr< GameBlock >> > GetMap ()

Get the vector 2D that is the map.

Public Attributes

std::shared_ptr< Player > player

Protected Attributes

- std::vector< std::shared_ptr< Monster >> monsters_
- std::vector< std::shared_ptr< Item > > items_
- std::vector< std::vector< std::shared_ptr< GameBlock >>> map_

5.4.1 Constructor & Destructor Documentation

5.4.1.1 Map() [1/2]

The map constructor.

Parameters

file_name | text file from where the map is read

5.4.1.2 Map() [2/2]

```
Map::Map ( )
```

5.4.2 Member Function Documentation

5.4.2.1 GetBlock()

Get BlockType of the specific pos.

Parameters

pos	Position of interest
-----	----------------------

Returns

BlockType of the specific pos

5.4.2.2 GetItems()

```
std::vector< std::shared_ptr< Item > > Map::GetItems ( )
```

Get BlockType of the specific pos.

Parameters



Returns

BlockType of the specific pos

5.4.2.3 GetMap()

Get the vector 2D that is the map.

Returns

A 2D vector of GameBlock

5.4.2.4 GetMonsters()

```
\verb|std::vector| < \verb|std::shared_ptr| < \verb|Monster| > > \verb|Map::GetMonsters| ( )
```

Get vector of Monsters on the Map object.

Returns

a vector of Monster references

5.4.2.5 ReadMap()

read the map from text file

Parameters

file_name

5.4.3 Member Data Documentation

5.4.3.1 items_

```
std::vector<std::shared_ptr<Item> > Map::items_ [protected]
```

5.4.3.2 map_

```
std::vector<std::shared_ptr<GameBlock> >> Map::map_ [protected]
```

5.4.3.3 monsters_

std::vector<std::shared_ptr<Monster> > Map::monsters_ [protected]

5.4.3.4 player

std::shared_ptr<Player> Map::player

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

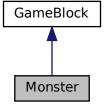
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Map.hpp
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Map.cpp

5.5 Monster Class Reference

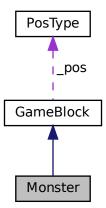
The Monster class inherit from GameBlock class, and define the Monster attribute and function.

#include <Monster.hpp>

Inheritance diagram for Monster:



Collaboration diagram for Monster:



Public Member Functions

Monster (const PosType &pos, int speed, const std::string &name, int hp, int attackPoint)

Monster constructor.

• const std::string getName () const

Get the monster name.

• int getHp () const

Get the monster health.

void ChangeHp (int hp)

Change the health of the monster.

• void Move (PosType newpos)

Will move the monster to a new position.

PosType NextPos (DirectionType d)

Will give the next position that the monster should have, given a position.

• bool Attack (Player &p)

Will attack a Player, its HP will be diminued from the monster attack point.

Protected Attributes

- std::string name_
- int HP_
- int AttackPoint_

Additional Inherited Members

5.5.1 Detailed Description

The Monster class inherit from GameBlock class, and define the Monster attribute and function.

5.5.2 Constructor & Destructor Documentation

5.5.2.1 Monster()

Monster constructor.

Parameters

pos	Position of the monster	
speed	speed of the monster	
name	name of the monster	
Generated by Doxygen p of the monster		
attackPoint	Attack of the Monster	

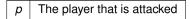
5.5.3 Member Function Documentation

5.5.3.1 Attack()

```
bool Monster::Attack ( Player & p)
```

Will attack a Player, its HP will be diminued from the monster attack point.

Parameters



Returns

True if the Player is dead, false otherwise

5.5.3.2 ChangeHp()

Change the health of the monster.

Parameters

hp the new health of the monster

5.5.3.3 getHp()

```
int Monster::getHp ( ) const
```

Get the monster health.

Returns

the monster health

5.5.3.4 getName()

```
const std::string Monster::getName ( ) const
```

Get the monster name.

Returns

the monster name

5.5.3.5 Move()

Will move the monster to a new position.

Parameters

	newpos	the new position of the monster	
--	--------	---------------------------------	--

5.5.3.6 NextPos()

```
PosType Monster::NextPos ( \label{eq:DirectionType} \ d \ )
```

Will give the next position that the monster should have, given a position.

Parameters

d The direction of the movement

Returns

The next position depending of the movement

5.5.4 Member Data Documentation

5.5.4.1 AttackPoint_

```
int Monster::AttackPoint_ [protected]
```

5.5.4.2 HP_

int Monster::HP_ [protected]

5.5.4.3 name_

```
std::string Monster::name_ [protected]
```

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

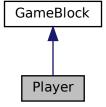
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Monster.hpp
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Monster.cpp

5.6 Player Class Reference

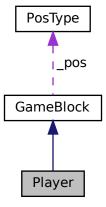
The Player class inherit from GameBlock class, and define the Player attribute and function.

```
#include <Player.hpp>
```

Inheritance diagram for Player:



Collaboration diagram for Player:



Public Member Functions

• Player (PosType pos, const std::string &name, int HP, int AttackPoint)

Player constructor.

• Player ()

Player default constructor.

• const std::string getName () const

Get the player name.

• int getHp () const

Get the player health.

• int getAttackPoint () const

Get the player attack.

void ChangeHp (int hp)

Change the health of the player.

· void setAttackPoint (int AttackPt)

Change the Attack of the player.

- const std::vector< std::shared_ptr< ltem>> & getItemInventory () const

Get the item inventory of the player.

void PickUpItem (std::shared ptr< Item > ItemToPick)

Add an item to the player ItemInventory.

· void UseItem ()

Will call the function UseItem of the first Item in the ItemInventory.

• void nextItem ()

Will change the first item of the ItemInventory to the second one, putting the first at the back.

bool Attack (Monster &m)

Will attack a Monster, its HP will be diminued from the player attack point.

void Move (PosType newpos)

Will move the player to a new position.

• PosType NextPos (DirectionType d)

Will give the next position that the player should have, given a position.

· void Setwin ()

Set Win.

· void Setloss ()

Set loss.

• bool isWin () const

Return the value of Win.

· bool isLoss () const

Return the value of Loss.

Protected Attributes

- std::string name_
- int HP_
- int AttackPoint
- std::vector< std::shared_ptr< Item> > ItemInventory_
- bool Win_
- bool Loss_

Additional Inherited Members

5.6.1 Detailed Description

The Player class inherit from GameBlock class, and define the Player attribute and function.

5.6.2 Constructor & Destructor Documentation

5.6.2.1 Player() [1/2]

Player constructor.

Parameters

pos	Position of the player
name	Name of the player
HP	HP of the player
AttackPoint	Attack of the player

5.6.2.2 Player() [2/2]

```
Player::Player ( ) [inline]
```

Player default constructor.

5.6.3 Member Function Documentation

5.6.3.1 Attack()

Will attack a Monster, its HP will be diminued from the player attack point.

Parameters

m The monster that is attacked

Returns

True if the monster is dead, false otherwise

5.6.3.2 ChangeHp()

Change the health of the player.

Parameters

hp the new health of the player

5.6.3.3 getAttackPoint()

```
int Player::getAttackPoint ( ) const
```

Get the player attack.

Returns

the player attack

5.6.3.4 getHp()

```
int Player::getHp ( ) const
```

Get the player health.

Returns

the player health

5.6.3.5 getItemInventory()

```
const std::vector< std::shared_ptr< Item > > & Player::getItemInventory ( ) const
```

Get the item inventory of the player.

Returns

the player item inventory

5.6.3.6 getName()

```
const std::string Player::getName ( ) const
```

Get the player name.

Returns

the player name

5.6.3.7 isLoss()

```
bool Player::isLoss ( ) const
```

Return the value of Loss.

5.6.3.8 isWin()

```
bool Player::isWin ( ) const
```

Return the value of Win.

5.6.3.9 Move()

Will move the player to a new position.

Parameters

newpos	the new position of the player
--------	--------------------------------

5.6.3.10 nextItem()

```
void Player::nextItem ( )
```

Will change the first item of the ItemInventory to the second one, putting the first at the back.

5.6.3.11 NextPos()

```
PosType Player::NextPos ( \label{eq:DirectionType} \mbox{ DirectionType } \mbox{ $d$ )}
```

Will give the next position that the player should have, given a position.

Parameters

d The direction of the movement

Returns

The next position depending of the movement

5.6.3.12 PickUpItem()

Add an item to the player ItemInventory.

Parameters

ItemToPick The item that will be added to the ItemInventory

5.6.3.13 setAttackPoint()

```
void Player::setAttackPoint (
```

```
int AttackPt )
```

Change the Attack of the player.

Parameters

Attack⊷	the new attack of the player
Pt	

5.6.3.14 Setloss()

```
void Player::Setloss ( )
```

Set loss.

5.6.3.15 Setwin()

```
void Player::Setwin ( )
```

Set Win.

5.6.3.16 UseItem()

```
void Player::UseItem ( )
```

Will call the function UseItem of the first Item in the ItemInventory.

5.6.4 Member Data Documentation

5.6.4.1 AttackPoint_

```
int Player::AttackPoint_ [protected]
```

5.6.4.2 HP_

```
int Player::HP_ [protected]
```

5.6.4.3 ItemInventory_

```
std::vector<std::shared_ptr<Item> > Player::ItemInventory_ [protected]
```

5.6.4.4 Loss_

bool Player::Loss_ [protected]

5.6.4.5 name

std::string Player::name_ [protected]

5.6.4.6 Win_

bool Player::Win_ [protected]

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

- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Player.hpp
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Player.cpp

5.7 PosType Struct Reference

```
#include <header.hpp>
```

Public Attributes

- int pos_x
- int pos_y

5.7.1 Member Data Documentation

5.7.1.1 pos_x

int PosType::pos_x

5.7.1.2 pos_y

int PosType::pos_y

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

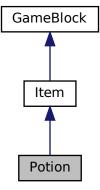
• /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/header.hpp

5.8 Potion Class Reference

The potion class inherit from Item abstract class, and define the health potion.

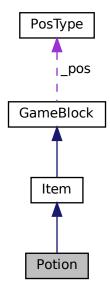
```
#include <Potion.hpp>
```

Inheritance diagram for Potion:



5.8 Potion Class Reference 33

Collaboration diagram for Potion:



Public Member Functions

- Potion (int HP, PosType pos, const std::string &name)
 - Potion constructor.
- virtual void Useltem (Player &player)

Use Item virtual function, that will heal the player of a number of HP.

- int getHp () const
 - Get the HP that the potion will heal.
- virtual ∼Potion ()

Potion destructor.

Protected Attributes

• int HP_

Additional Inherited Members

5.8.1 Detailed Description

The potion class inherit from Item abstract class, and define the health potion.

5.8.2 Constructor & Destructor Documentation

5.8.2.1 Potion()

Potion constructor.

Parameters

HP	The HP that will be restored to the player
pos	Position of the item
name	Name of the item

5.8.2.2 ∼Potion()

```
virtual Potion::~Potion ( ) [inline], [virtual]
```

Potion destructor.

5.8.3 Member Function Documentation

5.8.3.1 getHp()

```
int Potion::getHp ( ) const
```

Get the HP that the potion will heal.

Returns

Return the number of HP that the potion will heal

5.8.3.2 UseItem()

Use Item virtual function, that will heal the player of a number of HP.

5.9 Road Class Reference 35

Parameters

player	The player that will be heal

Implements Item.

5.8.4 Member Data Documentation

5.8.4.1 HP_

```
int Potion::HP_ [protected]
```

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

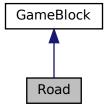
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Potion.hpp
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Potion.cpp

5.9 Road Class Reference

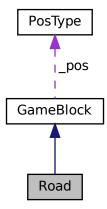
Road Class inheriting from GameBlock, with fixed speed and BlockType.

```
#include <Road.hpp>
```

Inheritance diagram for Road:



Collaboration diagram for Road:



Public Member Functions

• Road (PosType pos)

Road constructor.

Additional Inherited Members

5.9.1 Detailed Description

Road Class inheriting from GameBlock, with fixed speed and BlockType.

5.9.2 Constructor & Destructor Documentation

5.9.2.1 Road()

Road constructor.

Parameters

pos Position of the Road

5.10 Turn Class Reference 37

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

• /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Road.hpp

5.10 Turn Class Reference

```
#include <Turn.hpp>
```

Public Member Functions

• Turn (Map &map)

Constructor for a turn class.

bool RunPlayerTurn ()

Run the turn after the player's input.

• bool RunMonsterTurn ()

Move each monster in the map randomly after the player's turn.

bool swap (const PosType &road, const PosType &moveobj)

Swap the position of the GameObject in the map's 2 dimension vector and update the road's postype(the moveobj's postype will be updated in the turns)

Public Attributes

• std::vector< std::vector< std::shared_ptr< GameBlock >>> map_

5.10.1 Constructor & Destructor Documentation

5.10.1.1 Turn()

Constructor for a turn class.

Parameters

map | A map object with a 2 dimension vecotor contain every GameObject

5.10.2 Member Function Documentation

5.10.2.1 RunMonsterTurn()

```
bool Turn::RunMonsterTurn ( )
```

Move each monster in the map randomly after the player's turn.

Returns

True if the game continues false if the game is ended

5.10.2.2 RunPlayerTurn()

```
bool Turn::RunPlayerTurn ( )
```

Run the turn after the player's input.

Returns

True if the game continues false if the game is ended

5.10.2.3 swap()

Swap the position of the GameObject in the map's 2 dimension vector and update the road's postype(the moveobj's postype will be updated in the turns)

Parameters

raod	The position of the moveobj is moving on
moveobj	GameObject that is going to move, it could be a player or moster

Returns

True

5.10.3 Member Data Documentation

5.11 Wall Class Reference 39

5.10.3.1 map_

```
std::vector<std::shared_ptr<GameBlock> > Turn::map_
```

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

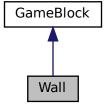
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Turn.hpp
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Turn.cpp

5.11 Wall Class Reference

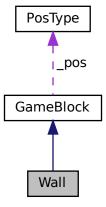
Wall Class inheriting from GameBlock, with fixed speed and BlockType.

```
#include <Wall.hpp>
```

Inheritance diagram for Wall:



Collaboration diagram for Wall:



Public Member Functions

Wall (PosType pos)
 Wall constructor.

Additional Inherited Members

5.11.1 Detailed Description

Wall Class inheriting from GameBlock, with fixed speed and BlockType.

5.11.2 Constructor & Destructor Documentation

5.11.2.1 Wall()

Wall constructor.

Parameters

pos Position of the Wall

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

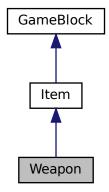
 $\bullet \ \ /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Wall.hpp$

5.12 Weapon Class Reference

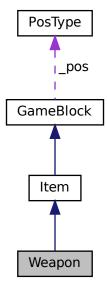
The Weapon class inherit from Item abstract class, and define the weapon.

```
#include <Weapon.hpp>
```

Inheritance diagram for Weapon:



Collaboration diagram for Weapon:



Public Member Functions

- Weapon (int Attack, PosType pos, const std::string &name)
 Potion constructor.
- virtual void Useltem (Player &player)

Use Item virtual function, that will give Attack to the player.

• int getAttack () const

Get the attack that will be given by the weapon to the player.

virtual ∼Weapon ()

Weapon Destructor.

Protected Attributes

· int Attack_

Additional Inherited Members

5.12.1 Detailed Description

The Weapon class inherit from Item abstract class, and define the weapon.

5.12.2 Constructor & Destructor Documentation

5.12.2.1 Weapon()

```
Weapon::Weapon (
    int Attack,
    PosType pos,
    const std::string & name )
```

Potion constructor.

Parameters

Attack	The Attack that the player will get
pos	Position of the item
name	Name of the item

5.12.2.2 \sim Weapon()

```
\label{eq:virtual weapon::} {\tt weapon::} {
```

Weapon Destructor.

5.12.3 Member Function Documentation

5.12.3.1 getAttack()

```
int Weapon::getAttack ( ) const
```

Get the attack that will be given by the weapon to the player.

Returns

The attack that will be given

5.12.3.2 UseItem()

Use Item virtual function, that will give Attack to the player.

Parameters

player	The player that will be given attack
--------	--------------------------------------

Implements Item.

5.12.4 Member Data Documentation

5.12.4.1 Attack

```
int Weapon::Attack_ [protected]
```

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

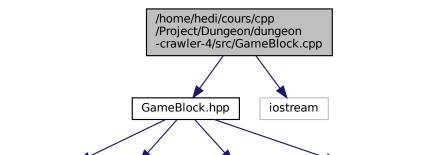
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Weapon.hpp
- /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/Weapon.cpp

Chapter 6

File Documentation

6.1 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/ GameBlock.cpp File Reference

```
#include "GameBlock.hpp"
#include "iostream"
Include dependency graph for GameBlock.cpp:
```



SFML/Graphics.hpp

header.hpp

6.2 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← GameBlock.hpp File Reference

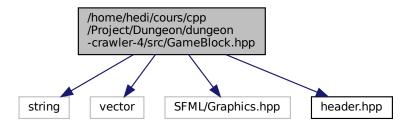
File with the defination of GameBlock class.

string

vector

```
#include <string>
#include <vector>
#include <SFML/Graphics.hpp>
```

#include "header.hpp"
Include dependency graph for GameBlock.hpp:



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



Classes

· class GameBlock

The base class of this application. Game Block is a unit of the map.

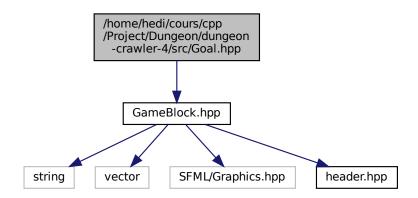
6.2.1 Detailed Description

File with the defination of GameBlock class.

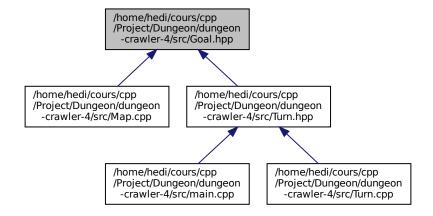
6.3 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Goal.hpp File Reference

File with the defination of Goal class.

#include "GameBlock.hpp"
Include dependency graph for Goal.hpp:



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



Classes

• class Goal

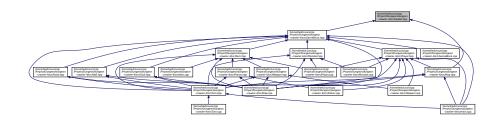
Goal Class inheriting from GameBlock, with fixed speed and BlockType.

6.3.1 Detailed Description

File with the defination of Goal class.

6.4 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/header.hpp File Reference

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



Classes

struct PosType

Enumerations

```
    enum BlockType {
        RoadType , WallType , PlayerType , MonsterType ,
        ltemType , GoalType }
    enum ltemTypeEnum { PotionType , WeaponType }
    enum DirectionType {
        UP , DOWN , RIGHT , LEFT ,
        NONE }
```

Variables

- const std::string imagespath = "../images/"
- const std::string mappath = "../src/"

6.4.1 Enumeration Type Documentation

6.4.1.1 BlockType

enum BlockType

Enumerator

RoadType	
WallType	
PlayerType	
MonsterType	
ItemType	
GoalType	

6.4.1.2 DirectionType

enum DirectionType

Enumerator

UP	
DOWN	
RIGHT	
LEFT	
NONE	

6.4.1.3 ItemTypeEnum

enum ItemTypeEnum

Enumerator

PotionType	
WeaponType	

6.4.2 Variable Documentation

6.4.2.1 imagespath

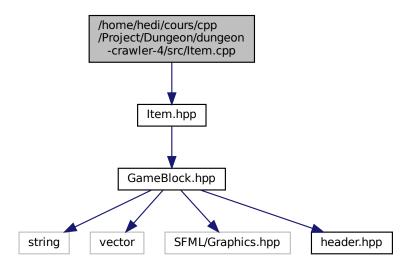
const std::string imagespath = "../images/"

6.4.2.2 mappath

const std::string mappath = "../src/"

6.5 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Item.cpp File Reference

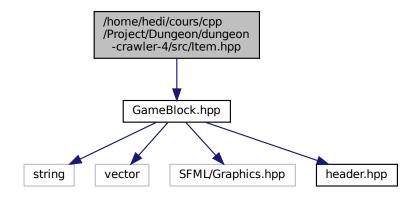
#include "Item.hpp"
Include dependency graph for Item.cpp:



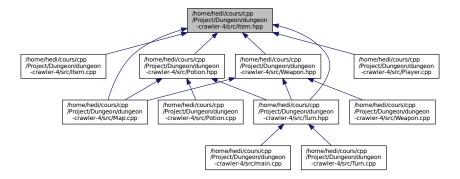
6.6 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Item.hpp File Reference

File with the defination of Item abstract class.

#include "GameBlock.hpp"
Include dependency graph for Item.hpp:



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



Classes

· class Item

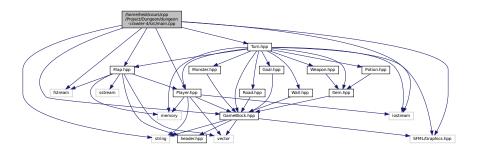
The item class inherit from Game Block and is the base abstract class for all item.

6.6.1 Detailed Description

File with the defination of Item abstract class.

6.7 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/main.cpp File Reference

```
#include "Map.hpp"
#include "iostream"
#include "Turn.hpp"
#include "Player.hpp"
#include <fstream>
#include <string>
#include "GameBlock.hpp"
#include <SFML/Graphics.hpp>
Include dependency graph for main.cpp:
```



Functions

• int main ()

6.7.1 Function Documentation

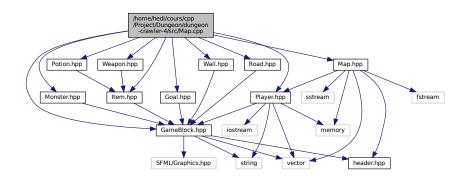
6.7.1.1 main()

int main ()

6.8 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Map.cpp File Reference

```
#include "Map.hpp"
#include "GameBlock.hpp"
#include "Player.hpp"
#include "Monster.hpp"
#include "Item.hpp"
#include "Potion.hpp"
#include "Weapon.hpp"
#include "Goal.hpp"
#include "Wall.hpp"
#include "Road.hpp"
```

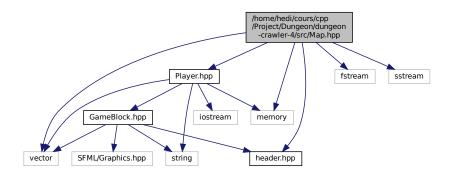
Include dependency graph for Map.cpp:



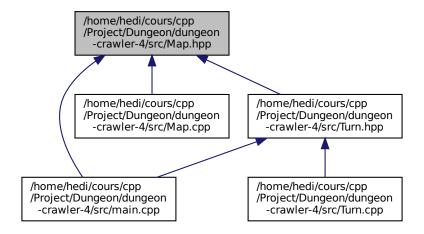
6.9 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Map.hpp File Reference

```
#include <vector>
#include <memory>
#include <fstream>
```

```
#include <sstream>
#include "Player.hpp"
#include "header.hpp"
Include dependency graph for Map.hpp:
```



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



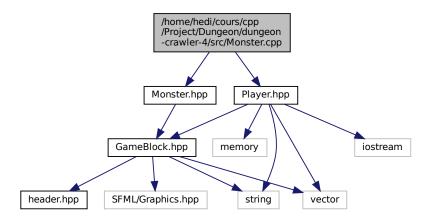
Classes

class Map

6.10 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Monster.cpp File Reference

```
#include "Monster.hpp"
#include "Player.hpp"
```

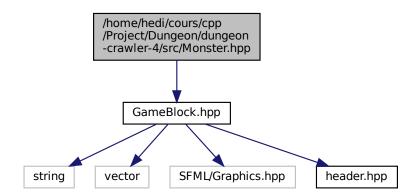
Include dependency graph for Monster.cpp:



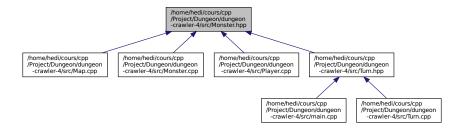
6.11 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Monster.hpp File Reference

File with the defination of Monster class.

#include "GameBlock.hpp"
Include dependency graph for Monster.hpp:



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



Classes

· class Monster

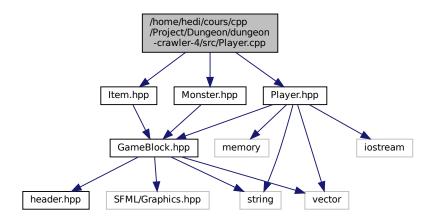
The Monster class inherit from GameBlock class, and define the Monster attribute and function.

6.11.1 Detailed Description

File with the defination of Monster class.

6.12 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Player.cpp File Reference

```
#include "Player.hpp"
#include "Monster.hpp"
#include "Item.hpp"
Include dependency graph for Player.cpp:
```

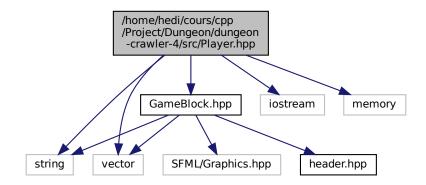


6.13 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Player.hpp File Reference

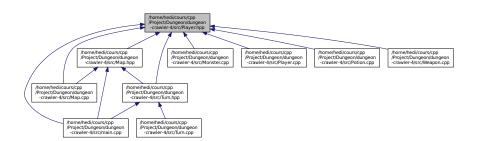
File with the defination of Player class.

```
#include "GameBlock.hpp"
#include <string>
#include <vector>
#include <iostream>
#include <memory>
```

Include dependency graph for Player.hpp:



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



Classes

· class Player

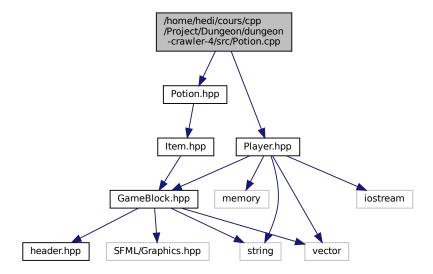
The Player class inherit from GameBlock class, and define the Player attribute and function.

6.13.1 Detailed Description

File with the defination of Player class.

6.14 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Potion.cpp File Reference

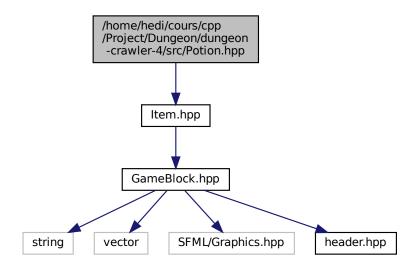
#include "Potion.hpp"
#include "Player.hpp"
Include dependency graph for Potion.cpp:



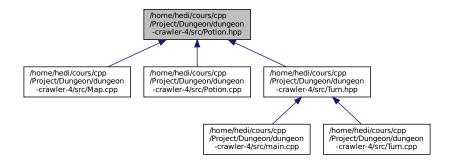
6.15 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Potion.hpp File Reference

File with the defination of Potion class.

#include "Item.hpp"
Include dependency graph for Potion.hpp:



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



Classes

class Potion

The potion class inherit from Item abstract class, and define the health potion.

6.15.1 Detailed Description

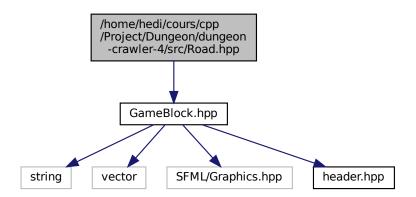
File with the defination of Potion class.

6.16 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/readme.md File Reference

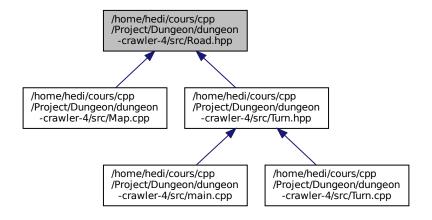
6.17 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Road.hpp File Reference

File with the defination of Road class.

#include "GameBlock.hpp"
Include dependency graph for Road.hpp:



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



Classes

class Road

Road Class inheriting from GameBlock, with fixed speed and BlockType.

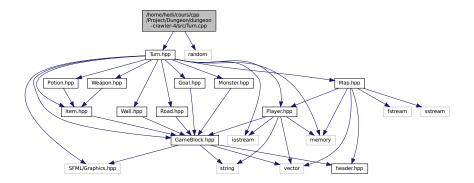
6.17.1 Detailed Description

File with the defination of Road class.

6.18 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/ Test.cpp File Reference

6.19 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Turn.cpp File Reference

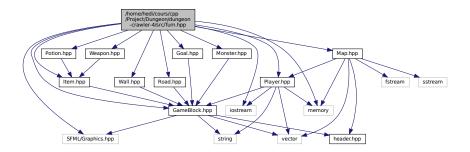
```
#include "Turn.hpp"
#include <random>
Include dependency graph for Turn.cpp:
```



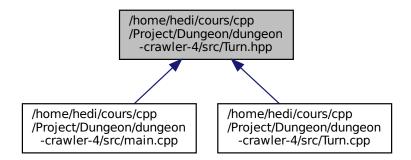
6.20 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/ Turn.hpp File Reference

```
#include <SFML/Graphics.hpp>
#include <iostream>
#include "GameBlock.hpp"
#include "Item.hpp"
#include "Player.hpp"
#include "Wall.hpp"
#include "Road.hpp"
#include "Goal.hpp"
#include "Monster.hpp"
#include "Map.hpp"
#include "Potion.hpp"
```

#include "Weapon.hpp"
Include dependency graph for Turn.hpp:



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



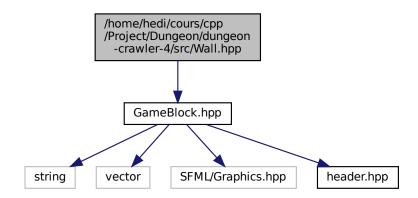
Classes

• class Turn

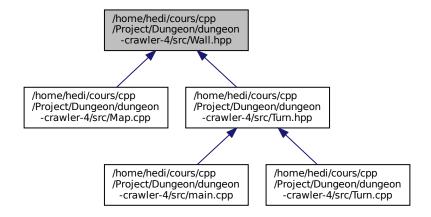
6.21 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Wall.hpp File Reference

File with the defination of Wall class.

#include "GameBlock.hpp"
Include dependency graph for Wall.hpp:



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



Classes

• class Wall

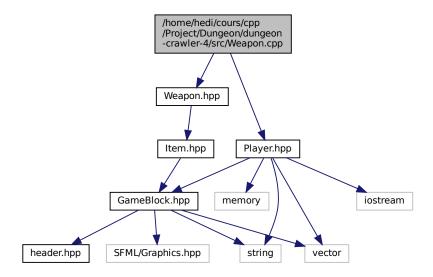
Wall Class inheriting from GameBlock, with fixed speed and BlockType.

6.21.1 Detailed Description

File with the defination of Wall class.

6.22 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/ Weapon.cpp File Reference

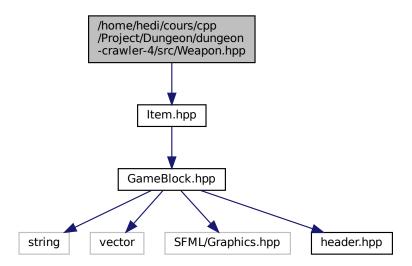
#include "Weapon.hpp"
#include "Player.hpp"
Include dependency graph for Weapon.cpp:



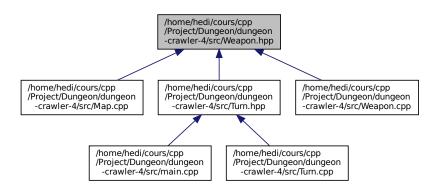
6.23 /home/hedi/cours/cpp/Project/Dungeon/dungeon-crawler-4/src/← Weapon.hpp File Reference

File with the defination of Weapon class.

#include "Item.hpp"
Include dependency graph for Weapon.hpp:



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



Classes

class Weapon

The Weapon class inherit from Item abstract class, and define the weapon.

6.23.1 Detailed Description

File with the defination of Weapon class.

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