Arcade architecture

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Chapter 1

Commit norm:

```
<Gitmoji>: [Element / Module] : [MESSAGE]
```

Gitmoji = The emoji approriate for the current modification. [Element / Module] = The elemenet you applied the modification. [MESSAGE] = A detail message of what you did.

Gitmojies:

```
Code feature:
    -:sparkles: (): Introduce new features
    -:recycle: (): Refactor / update code
    -:bug: (): Fix a bug
    -:poop: (): Remove Coding style or temporary fix
    -:rotating_light: (): Fix Compiling Warning
    -:fire: (): Remove code or files

Test feature:
    -:white_check_mark: (): Add, update, or pass tests

Architecture:
    -:see_no_evil: (): Add or update .gitignore files
    -:construction_worker: (): Add or update CI build system
    -:building_construction: (): Make Architectural changes
    -:memo: (): Add or update documentation
```

1.0.1 Pull Request

- :tada: (): This Gitmoji must be used for each PR created!
- · :lipstick: (): This Gitmoji must be used for each PR merged!
- :rewind: (): This Gitmoji must be used for each revert done!

1.1 Git-Cli:

 Changer message de commit, avant qu'il soit push : git commit --amend -m "New commit message"

```
• Changer le message de commit, si il a deja été push : git commit --amend -m "New commit message"
```

Un-add un ficher add par erreur qui est pas encore push:

```
git restore --staged <file>
```

• Un-add un fichier qui a été commit :

```
git reset --soft HEAD~1
git restore --staged fichier-a-retirer.txt
git commit -m "Nouveau message de commit (sans le fichier)"
```

2 Commit norm :

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

Cooks	??
std::exception IException	??
AException	
Cooks::ErrorCooks	
Kitchen::ErrorKitchen	??
Oven::ErrorOven	??
Plazza::ErrorParsing	??
Reception::ErrorReception	??
·	??
Socket::SocketException	??
Ingridient	?? ??
ingStat	
IPCSocket	??
IRecipe	??
APasta	??
Arrabiata	??
Bolognese	??
Carbonara	??
Lasagna	??
Paffo	??
Pesto	??
APizza	??
AmericanaClass	
FantasiaClass	
MargaritaClass	
ReginaClass	
Kitchen	??
	??
Order	??
Oven	
Plazza	??
Reception	??
Socket	??
Utils	??

4 Hierarchical Index

Chapter 3

Class Index

3.1 Class List

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

AException
AmericanaClass ??
APasta ??
APizza ??
Arrabiata ??
Bolognese ??
Carbonara
Cooks
Cooks::ErrorCooks
Kitchen::ErrorKitchen
Oven::ErrorOven
Plazza::ErrorParsing
Reception::ErrorReception
FantasiaClass
IException
Ingridient
ingStat
IPCSocket
Kitchen
Lasagna
MargaritaClass
Order
Oven
Paffo ??
Pesto ??
Plazza
Reception
ReginaClass
Socket
Socket::SocketException
Litils 23

6 Class Index

Chapter 4

File Index

4.1 File List

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

common/AException.hpp	??
common/APasta.hpp	??
	??
	??
	??
common/IPCSocket.hpp	??
	??
and the same of th	??
	??
and the same of th	??
and the second of the second o	??
and the second of the second o	??
	??
	??
' '	??
	??
F	??
2 2 2 4 2 4 2 4 2 4 2 4 4 4 4 4 4 4 4 4	??
F F	??
and the support of th	??
and the same of th	??
and the same of the same of the	??
F	??
1 1 0 11	??
src/utils/Utils.hpp	??

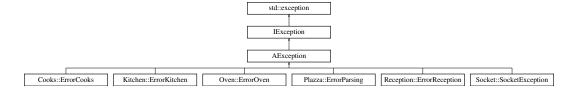
8 File Index

Chapter 5

Class Documentation

5.1 AException Class Reference

Inheritance diagram for AException:



Public Member Functions

- AException (const std::string &type, const std::string &message)
- const char * what () const noexcept override
- std::string getType () const noexcept override
- std::string getMessage () const noexcept override
- std::string getFormattedMessage () const noexcept override

Private Attributes

- std::string _message
- std::string _type

5.1.1 Member Function Documentation

5.1.1.1 getFormattedMessage()

std::string AException::getFormattedMessage () const [inline], [override], [virtual], [noexcept]

Implements IException.

5.1.1.2 getMessage()

```
std::string AException::getMessage ( ) const [inline], [override], [virtual], [noexcept]
Implements IException.
```

5.1.1.3 getType()

```
std::string AException::getType ( ) const [inline], [override], [virtual], [noexcept]
Implements IException.
```

5.1.1.4 what()

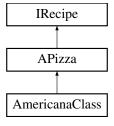
```
const char * AException::what ( ) const [inline], [override], [virtual], [noexcept]
Implements IException.
```

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

• common/AException.hpp

5.2 Americana Class Class Reference

Inheritance diagram for AmericanaClass:



Public Member Functions

- AmericanaClass (int number)
- void cook (int cookTime) override
- $\bullet \ \, \text{std::shared_ptr} < \ \, \text{Ingridient} > \ \, \text{prepare} \ \, \text{(int number, std::shared_ptr} < \ \, \text{Ingridient} > \ \, \text{ingridient}) \ \, \text{override}$
- void serve () override

Public Member Functions inherited from APizza

- APizza (int number)
- int getNumber () const override
- void setNumber (int number) override

5.3 APasta Class Reference 11

5.2.1 Member Function Documentation

5.2.1.1 cook()

```
void AmericanaClass::cook (
          int cookTime ) [override], [virtual]
```

Implements APizza.

5.2.1.2 prepare()

Implements APizza.

5.2.1.3 serve()

```
void AmericanaClass::serve ( ) [override], [virtual]
```

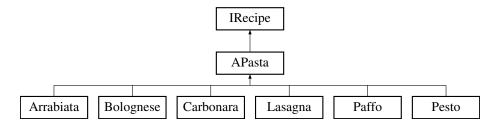
Implements APizza.

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

- src/recipes/pizza/Americana.hpp
- src/recipes/pizza/Americana.cpp

5.3 APasta Class Reference

Inheritance diagram for APasta:



- APasta (int number)
- virtual void cook (int cookTime) override=0
- virtual std::shared_ptr< Ingridient > prepare (int number, std::shared_ptr< Ingridient > ingridient) override=0
- virtual void serve () override=0
- int getNumber () const override
- void setNumber (int number) override

Private Attributes

- int _size
- int _number

5.3.1 Member Function Documentation

5.3.1.1 cook()

```
virtual void APasta::cook (
                int cookTime ) [override], [pure virtual]
```

Implements IRecipe.

5.3.1.2 getNumber()

```
int APasta::getNumber ( ) const [override], [virtual]
```

Implements IRecipe.

5.3.1.3 prepare()

Implements IRecipe.

5.3.1.4 serve()

```
virtual void APasta::serve ( ) [override], [pure virtual]
```

Implements IRecipe.

5.3.1.5 setNumber()

```
void APasta::setNumber (
                int number ) [override], [virtual]
```

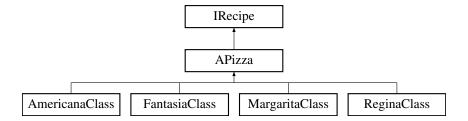
Implements IRecipe.

- · common/APasta.hpp
- · common/APasta.cpp

5.4 APizza Class Reference 13

5.4 APizza Class Reference

Inheritance diagram for APizza:



Public Member Functions

- APizza (int number)
- virtual void cook (int cookTime) override=0
- virtual std::shared_ptr< Ingridient > prepare (int number, std::shared_ptr< Ingridient > ingridient) override=0
- virtual void serve () override=0
- int getNumber () const override
- · void setNumber (int number) override

Private Attributes

• int _number

5.4.1 Member Function Documentation

5.4.1.1 cook()

```
virtual void APizza::cook (
          int cookTime ) [override], [pure virtual]
```

Implements IRecipe.

5.4.1.2 getNumber()

```
int APizza::getNumber ( ) const [override], [virtual]
```

Implements IRecipe.

5.4.1.3 prepare()

Implements IRecipe.

5.4.1.4 serve()

```
virtual void APizza::serve ( ) [override], [pure virtual]
```

Implements IRecipe.

5.4.1.5 setNumber()

```
void APizza::setNumber (
                int number ) [override], [virtual]
```

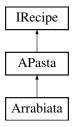
Implements IRecipe.

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

- · common/APizza.hpp
- · common/APizza.cpp

5.5 Arrabiata Class Reference

Inheritance diagram for Arrabiata:



Public Member Functions

- Arrabiata (int number)
- void cook (int cookTime) override
- std::shared_ptr< Ingridient > prepare (int number, std::shared_ptr< Ingridient > ingridient) override
- void serve () override

Public Member Functions inherited from APasta

- APasta (int number)
- int getNumber () const override
- void setNumber (int number) override

5.5.1 Member Function Documentation

5.5.1.1 cook()

```
void Arrabiata::cook (
          int cookTime ) [override], [virtual]
```

Implements APasta.

5.5.1.2 prepare()

Implements APasta.

5.5.1.3 serve()

```
void Arrabiata::serve ( ) [override], [virtual]
```

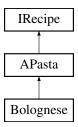
Implements APasta.

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

- src/recipes/pasta/Arrabiata.hpp
- src/recipes/pasta/Arrabiata.cpp

5.6 Bolognese Class Reference

Inheritance diagram for Bolognese:



- Bolognese (int number)
- void cook (int cookTime)
- std::shared_ptr< Ingridient > prepare (int number, std::shared_ptr< Ingridient > ingridient)
- void serve ()

Public Member Functions inherited from APasta

- APasta (int number)
- int getNumber () const override
- void setNumber (int number) override

5.6.1 Member Function Documentation

5.6.1.1 cook()

```
void Bolognese::cook (
          int cookTime ) [virtual]
```

Implements APasta.

5.6.1.2 prepare()

Implements APasta.

5.6.1.3 serve()

```
void Bolognese::serve ( ) [virtual]
```

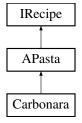
Implements APasta.

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

- src/recipes/pasta/Bolognese.hpp
- src/recipes/pasta/Bolognese.cpp

5.7 Carbonara Class Reference

Inheritance diagram for Carbonara:



5.8 Cooks Class Reference 17

Public Member Functions

- Carbonara (int number)
- void cook (int cookTime) override
- std::shared_ptr< Ingridient > prepare (int number, std::shared_ptr< Ingridient > ingridient) override
- void serve () override

Public Member Functions inherited from APasta

- · APasta (int number)
- int getNumber () const override
- void setNumber (int number) override

5.7.1 Member Function Documentation

5.7.1.1 cook()

```
void Carbonara::cook (
          int cookTime ) [override], [virtual]
```

Implements APasta.

5.7.1.2 prepare()

Implements APasta.

5.7.1.3 serve()

```
void Carbonara::serve ( ) [override], [virtual]
```

Implements APasta.

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

- src/recipes/pasta/Carbonara.hpp
- src/recipes/pasta/Carbonara.cpp

5.8 Cooks Class Reference

Classes

class ErrorCooks

Public Member Functions

- Cooks (std::shared_ptr< Ingridient > ingridient, int id, int cookTime, int restockTime)
- std::shared_ptr< Ingridient > startOrder (std::shared_ptr< Ingridient > ingridient, std::vector< std::string > order)
- · void restock ()
- bool hasEnoughIngredients (const std::string &orderData, std::shared_ptr< Ingridient > ingridient)
- int getID () const
- · bool isBusy () const
- bool isRestocking () const

Private Attributes

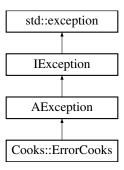
- int _ID
- int _cookTime
- int restockTime
- std::shared_ptr< Ingridient > _ingridient
- std::mutex _statusMutex
- bool _isBusy
- bool _isRestocking

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

- · src/cooks/Cooks.hpp
- · src/cooks/Cooks.cpp

5.9 Cooks::ErrorCooks Class Reference

Inheritance diagram for Cooks::ErrorCooks:



Public Member Functions

• ErrorCooks (const std::string &message)

Public Member Functions inherited from AException

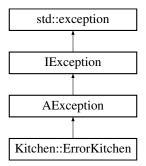
- AException (const std::string &type, const std::string &message)
- · const char * what () const noexcept override
- std::string getType () const noexcept override
- std::string getMessage () const noexcept override
- std::string getFormattedMessage () const noexcept override

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

- · src/cooks/Cooks.hpp
- src/cooks/ErrorCooks.cpp

5.10 Kitchen::ErrorKitchen Class Reference

Inheritance diagram for Kitchen::ErrorKitchen:



Public Member Functions

• ErrorKitchen (const std::string &message)

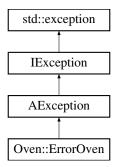
Public Member Functions inherited from **AException**

- AException (const std::string &type, const std::string &message)
- const char * what () const noexcept override
- std::string getType () const noexcept override
- std::string getMessage () const noexcept override
- std::string getFormattedMessage () const noexcept override

- · src/kitchen/Kitchen.hpp
- · src/kitchen/ErrorKitchen.cpp

5.11 Oven::ErrorOven Class Reference

Inheritance diagram for Oven::ErrorOven:



Public Member Functions

• ErrorOven (const std::string &message)

Public Member Functions inherited from AException

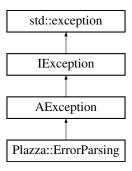
- AException (const std::string &type, const std::string &message)
- const char * what () const noexcept override
- std::string getType () const noexcept override
- std::string getMessage () const noexcept override
- std::string getFormattedMessage () const noexcept override

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

- src/kitchen/Oven.hpp
- src/kitchen/ErrorOven.cpp

5.12 Plazza::ErrorParsing Class Reference

Inheritance diagram for Plazza::ErrorParsing:



Public Member Functions

• ErrorParsing (const std::string &message)

Public Member Functions inherited from AException

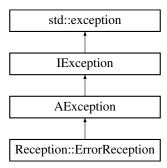
- AException (const std::string &type, const std::string &message)
- · const char * what () const noexcept override
- std::string getType () const noexcept override
- std::string getMessage () const noexcept override
- std::string getFormattedMessage () const noexcept override

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

- src/Plazza.hpp
- · src/ErrorParsing.cpp

5.13 Reception::ErrorReception Class Reference

Inheritance diagram for Reception::ErrorReception:



Public Member Functions

• ErrorReception (const std::string &message)

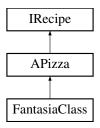
Public Member Functions inherited from **AException**

- AException (const std::string &type, const std::string &message)
- const char * what () const noexcept override
- std::string getType () const noexcept override
- std::string getMessage () const noexcept override
- std::string getFormattedMessage () const noexcept override

- src/reception/Reception.hpp
- src/reception/ErrorReception.cpp

5.14 Fantasia Class Class Reference

Inheritance diagram for FantasiaClass:



Public Member Functions

- FantasiaClass (int number)
- void cook (int cookTime) override
- std::shared_ptr< Ingridient > prepare (int number, std::shared_ptr< Ingridient > ingridient) override
- void serve () override

Public Member Functions inherited from APizza

- APizza (int number)
- int getNumber () const override
- void setNumber (int number) override

5.14.1 Member Function Documentation

5.14.1.1 cook()

```
void FantasiaClass::cook (
         int cookTime ) [override], [virtual]
```

Implements APizza.

5.14.1.2 prepare()

Implements APizza.

5.14.1.3 serve()

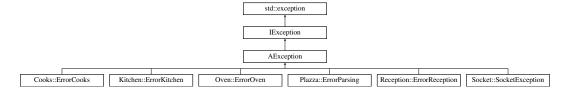
```
void FantasiaClass::serve ( ) [override], [virtual]
```

Implements APizza.

- src/recipes/pizza/Fantasia.hpp
- src/recipes/pizza/Fantasia.cpp

5.15 IException Class Reference

Inheritance diagram for IException:



Public Member Functions

- const char * what () const noexcept override=0
- virtual std::string getType () const noexcept=0
- virtual std::string getMessage () const noexcept=0
- virtual std::string getFormattedMessage () const noexcept=0

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

· common/IException.hpp

5.16 Ingridient Class Reference

- std::vector< ingStat > fridgeStatus ()
- int getDough () const
- int getTomato () const
- int getCheese () const
- int getHam () const
- int getMushroom () const
- int getSteak () const
- int getEggplant () const
- int getGoatCheese () const
- int getChefLove () const
- int getEgg () const
- int getBacon () const
- int getBasil () const
- int getPepper () const
- void setDough (int dough)
- void **setTomato** (int tomato)
- void setCheese (int cheese)
- void setHam (int ham)
- void setMushroom (int mushroom)
- void setSteak (int steak)
- void setEggplant (int eggplant)
- void **setGoatCheese** (int goatCheese)
- void setChefLove (int chefLove)
- void setEgg (int egg)
- · void setBacon (int bacon)
- void setBasil (int basil)
- void setPepper (int pepper)
- std::string packIngredients () const

Static Public Member Functions

• static std::map< IngridientType, int > unpackIngredients (const std::string &packedData)

Private Attributes

- int _dough
- int _tomato
- int cheese
- int _ham
- int _mushroom
- int _steak
- int _eggplant
- · int goatCheese
- int _chefLove
- int **_egg**
- int _bacon
- int _basil
- int _pepper
- std::vector< ingStat > _ingridient

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

- · common/Ingridient.hpp
- · common/Ingridient.cpp

5.17 ingStat Struct Reference

Public Attributes

- IngridientType type
- int quantity

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

· common/Ingridient.hpp

5.18 IPCSocket Class Reference

- IPCSocket (std::string path)
- ssize_t sendMessage (const std::string &msg)
- std::string recvMessage ()

Private Attributes

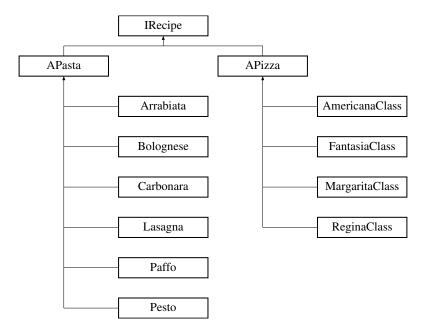
- int _fd
- std::string _path

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

- · common/IPCSocket.hpp
- common/IPCSocket.cpp

5.19 IRecipe Class Reference

Inheritance diagram for IRecipe:



Public Member Functions

- virtual void **cook** (int cookTime)=0
- $\bullet \ \ \text{virtual std::shared_ptr} < \ \ \text{Ingridient} > \ \ \text{prepare} \ \ (\text{int number, std::shared_ptr} < \ \ \text{Ingridient} > \ \ \text{ingridient}) = 0 \\$
- virtual void serve ()=0
- virtual int **getNumber** () const =0
- virtual void **setNumber** (int number)=0

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

· common/IRecipe.hpp

5.20 Kitchen Class Reference

Classes

· class ErrorKitchen

Public Member Functions

- Kitchen (int id, int nbCooks, int cookTime, int restockTime, bool debug)
- void startKitchenProcess ()
- · void startKitchen ()
- void createCooks ()
- · void restock ()
- · void run ()
- void processOrder (const std::string &orderData)
- bool canAcceptOrder (int numPizzas)
- · void stopKitchen ()
- · void sendOrder ()
- int getID () const
- int getNbCooks () const
- int getCookTime () const
- int getRestockTime () const
- int getMaxCmd () const
- std::shared_ptr< Ingridient > getIngridient () const
- std::vector < Cooks * > getCooks () const
- int getCurrentOrders () const

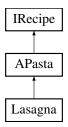
Private Attributes

- int _ID
- int nbCooks
- int cookTime
- int restockTime
- int _maxCmd
- int _currentOrders
- bool _isDebug
- bool _isRunning
- std::chrono::steady_clock::time_point _lastActivity
- std::mutex _orderMutex
- std::mutex _ingMutex
- std::condition_variable _cookCV
- Socket socket
- std::shared_ptr< Ingridient > _ingridient
- std::vector < Cooks * > _cooks
- std::vector< std::thread > _cookThreads
- std::thread _restockThread
- std::queue < std::string > _orderQueue

- · src/kitchen/Kitchen.hpp
- src/kitchen/Kitchen.cpp

5.21 Lasagna Class Reference

Inheritance diagram for Lasagna:



Public Member Functions

- Lasagna (int number)
- void cook (int cookTime) override
- std::shared_ptr< Ingridient > prepare (int number, std::shared_ptr< Ingridient > ingridient) override
- void serve () override

Public Member Functions inherited from APasta

- · APasta (int number)
- int getNumber () const override
- void setNumber (int number) override

5.21.1 Member Function Documentation

5.21.1.1 cook()

5.21.1.2 prepare()

Implements APasta.

5.21.1.3 serve()

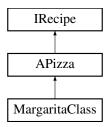
```
void Lasagna::serve ( ) [override], [virtual]
```

Implements APasta.

- src/recipes/pasta/Lasagna.hpp
- src/recipes/pasta/Lasagna.cpp

5.22 MargaritaClass Class Reference

Inheritance diagram for MargaritaClass:



Public Member Functions

- MargaritaClass (int number)
- void cook (int cookTime) override
- std::shared_ptr< Ingridient > prepare (int number, std::shared_ptr< Ingridient > ingridient) override
- void serve () override

Public Member Functions inherited from APizza

- APizza (int number)
- int getNumber () const override
- void setNumber (int number) override

5.22.1 Member Function Documentation

5.22.1.1 cook()

5.22.1.2 prepare()

Implements APizza.

5.22.1.3 serve()

```
void MargaritaClass::serve ( ) [override], [virtual]
```

Implements APizza.

- src/recipes/pizza/Margarita.hpp
- src/recipes/pizza/Margarita.cpp

5.23 Order Struct Reference 29

5.23 Order Struct Reference

Static Public Member Functions

- static std::string pack (const Order &order)
- static Order unpack (const std::string &data)

Public Attributes

- PizzaType type
- · Size size
- int number

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

· common/Order.hpp

5.24 Oven Class Reference

Classes

class ErrorOven

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

- src/kitchen/Oven.hpp
- src/kitchen/Oven.cpp

5.25 Paffo Class Reference

Inheritance diagram for Paffo:



- Paffo (int number)
- void cook (int cookTime) override
- std::shared_ptr< Ingridient > prepare (int number, std::shared_ptr< Ingridient > ingridient) override
- void serve () override

Public Member Functions inherited from APasta

- APasta (int number)
- int getNumber () const override
- void setNumber (int number) override

5.25.1 Member Function Documentation

```
5.25.1.1 cook()
```

```
void Paffo::cook (
        int cookTime ) [override], [virtual]
```

Implements APasta.

5.25.1.2 prepare()

Implements APasta.

5.25.1.3 serve()

```
void Paffo::serve ( ) [override], [virtual]
```

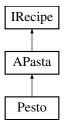
Implements APasta.

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

- src/recipes/pasta/Paffo.hpp
- src/recipes/pasta/Paffo.cpp

5.26 Pesto Class Reference

Inheritance diagram for Pesto:



Public Member Functions

- Pesto (int number)
- void cook (int cookTime) override
- std::shared_ptr< Ingridient > prepare (int number, std::shared_ptr< Ingridient > ingridient) override
- void serve () override

Public Member Functions inherited from APasta

- · APasta (int number)
- int getNumber () const override
- void setNumber (int number) override

5.26.1 Member Function Documentation

5.26.1.1 cook()

Implements APasta.

5.26.1.2 prepare()

Implements APasta.

5.26.1.3 serve()

```
void Pesto::serve ( ) [override], [virtual]
```

Implements APasta.

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

- src/recipes/pasta/Pesto.hpp
- src/recipes/pasta/Pesto.cpp

5.27 Plazza Class Reference

Classes

class ErrorParsing

Public Member Functions

- void parseCmd (char **av, int ac)
- void orderingLoop ()

Private Attributes

- int _nbCooks
- · int timerCooker
- int _timerRestock
- bool debug
- · Reception _reception

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

- · src/Plazza.hpp
- src/Plazza.cpp

5.28 Reception Class Reference

Classes

· class ErrorReception

- void **setValues** (int nbCooks, int cookTime, int restockTime, bool debug)
- void **createKitchen** (int id, int nbCooks, int cookTime, int restockTime)
- void destroyKitchen (int id)
- void orderingLoop ()
- void interMessaege (std::shared_ptr< Socket > socket, int id)
- std::vector< std::string > checkCommand (const char *command)
- void processOrders (const std::vector< std::string > &orders)
- bool sendOrderToKitchen (const std::string &orderData)
- void monitorKitchens ()
- void **updateKitchenStat** (std::map< IngridientType, int > ingredients, std::shared_ptr< Kitchen > kitchens)
- int getNbKitchens () const
- std::vector< std::shared_ptr< Kitchen > > getKitchens () const
- std::shared_ptr< Kitchen > getKitchen (int id) const

Private Attributes

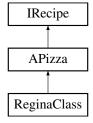
- int _nbCooks
- · int _cookTime
- int restockTime
- int _nbKitchens
- bool _isDebug
- bool _isRunning
- std::vector< std::shared_ptr< Kitchen >> _kitchens
- std::map< int, std::shared_ptr< Socket >> _kitchenSockets
- std::mutex _kitchensMutex
- std::thread _monitorThread

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

- src/reception/Reception.hpp
- src/reception/CommandParser.cpp
- src/reception/ReceiveMessageKitchen.cpp
- src/reception/Reception.cpp

5.29 ReginaClass Class Reference

Inheritance diagram for ReginaClass:



Public Member Functions

- · ReginaClass (int number)
- void cook (int cookTime) override
- std::shared_ptr< Ingridient > prepare (int number, std::shared_ptr< Ingridient > ingridient) override
- void serve () override

Public Member Functions inherited from APizza

- APizza (int number)
- int getNumber () const override
- void setNumber (int number) override

5.29.1 Member Function Documentation

5.29.1.1 cook()

```
void ReginaClass::serve ( ) [override], [virtual]
```

Implements APizza.

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

- src/recipes/pizza/Regina.hpp
- src/recipes/pizza/Regina.cpp

5.30 Socket Class Reference

Classes

• class SocketException

- void createServer (const std::string &sockPath)
- void acceptClient ()
- void closeServer ()
- void **connectToServer** (const std::string &sockPath)
- · void closeClient ()
- ssize_t send (const std::string &message)
- std::string receive (size_t size=1024)
- bool isConnected () const
- Socket & operator<< (const std::string &message)
- Socket & operator>> (std::string &message)

Private Attributes

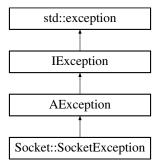
- · int serverFd
- int _clientFd
- struct sockaddr_un _addr
- std::string sockPath
- bool isServer
- · bool _isConnected

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

- · common/Socket.hpp
- · common/Socket.cpp

5.31 Socket::SocketException Class Reference

Inheritance diagram for Socket::SocketException:



Public Member Functions

• SocketException (const std::string &message)

Public Member Functions inherited from **AException**

- **AException** (const std::string &type, const std::string &message)
- const char * what () const noexcept override
- std::string getType () const noexcept override
- std::string getMessage () const noexcept override
- std::string getFormattedMessage () const noexcept override

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

- · common/Socket.hpp
- common/ErrorSocket.cpp

5.32 Utils Class Reference

Public Member Functions

· void helper ()

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

- src/utils/Utils.hpp
- · src/utils/Utils.cpp

36 Class Documentation

Chapter 6

File Documentation

6.1 AException.hpp

```
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** AExeption
00007
00008 #ifndef AEXEPTION_HPP
00009
         #define AEXEPTION_HPP_
00010
00011 #include "IException.hpp"
00012 #include <string>
00014 class AException : public IException {
00015 public:
            AException(const std::string& type, const std::string& message)
00016
00017
              : _message(message), _type(type) {}
virtual ~AException() noexcept = default;
00018
00019
00020
               const char* what() const noexcept override {
00021
                 return getFormattedMessage().c_str();
00022
00023
00024
               std::string getType() const noexcept override {
                   return _type;
00026
00027
00028
               std::string getMessage() const noexcept override {
00029
                  return _message;
00030
              std::string getFormattedMessage() const noexcept override {
00032
00033
                  return "\033[1;31m[" + _type + "]\033[0m " + _message;
00034
00035
          private:
00036
00037
              std::string _message;
00038
              std::string _type;
00039 };
00040
00041 #endif /* !AEXEPTION_HPP_ */
```

6.2 APasta.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** APasta
00006 */
00007
00008 #ifndef APASTA_HPP_
00009 #define APASTA_HPP_
```

```
00011 #include "IRecipe.hpp"
00012
00013 enum PastaType
00014 {
00015
          Carbonara = 1,
00016
          Pesto = 2.
          Bolognese = 3,
00018
          Arrabiata = 4,
00019
          Paffo = 6,
00020
          Lasagna = 10
00021 };
00022
00023
00024 class APasta : public IRecipe {
00025
        public:
00026
              APasta(int number);
              virtual ~APasta() override = default;
virtual void cook(int cookTime) override = 0;
00027
00028
00029
              virtual std::shared_ptr<Ingridient> prepare(int number, std::shared_ptr<Ingridient>
     ingridient) override = 0;
00030
              virtual void serve() override = 0;
00031
              /* Getter */
00032
00033
              int getNumber() const override;
00034
00035
              /* Setter */
00036
              void setNumber(int number) override;
00037
00038
          private:
00039
              int _size;
00040
               int _number;
00041 };
00042
00043 #endif /* !APASTA_HPP_ */
```

6.3 APizza.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** APizza
00006 */
00007
00008 #ifndef APIZZA_HPP_
00009 #define APIZZA_HPP_
00010
00011 #include "IRecipe.hpp"
00012
00013 enum PizzaType
00014 {
00015
          Nothing = 0,
00016
          Regina = 1,
          Margarita = 2,
Americana = 4,
00017
00018
          Fantasia = 8
00019
00020 };
00021
00022
00023 class APizza : public IRecipe {
        public:
00024
00025
              APizza(int number);
              virtual ~APizza() override = default;
virtual void cook(int cookTime) override = 0;
00026
00028
              virtual std::shared_ptr<Ingridient> prepare(int number, std::shared_ptr<Ingridient>
     ingridient) override = 0;
00029
              virtual void serve() override = 0;
00030
00031
              /* Getter */
00032
              int getNumber() const override;
00033
00034
              /* Setter */
00035
              void setNumber(int number) override;
00036
          private:
00037
              int _number;
00038
00039 };
00040
00041 #endif /* !APIZZA_HPP_ */
```

6.4 IException.hpp 39

6.4 IException.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** IExeption
00006 */
00007
00008 #include <exception>
00009 #include <string>
00010
00011 #ifndef IEXEPTION_HPP_
00012
         #define IEXEPTION_HPP_
00013
00014 class IException : public std::exception {
       public:
00015
              virtual ~IException() noexcept = default;
00016
00017
              const char* what() const noexcept override = 0;
              virtual std::string getType() const noexcept = 0;
00019
              virtual std::string getMessage() const noexcept = 0;
00020
              virtual std::string getFormattedMessage() const noexcept = 0;
00021 };
00022
00023 #endif /* !IEXEPTION_HPP_ */
```

6.5 Ingridient.hpp

```
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** Ingridient
00006 */
00007
00008 #include <vector>
00009 #include <string>
00010 #include <sstream>
00011 #include <map>
00012
00013 #ifndef INGRIDIENT_HPP_
00014 #define INGRIDIENT_HPP_
00015
00016 enum IngridientType
00017 {
00018
          DOUGH = 0,
00019
          TOMATO = 1,
          CHEESE = 2,
00020
00021
          HAM = 3.
00022
          MUSHROOM = 4,
          STEAK = 5,
EGGPLANT = 6,
00023
00024
00025
          GOAT_CHEESE = 7,
00026
          CHEF_LOVE = 8,
00027
          EGG = 9.
          BACON = 10,
BASIL = 11,
00028
00029
00030
          PEPPER = 12
00031 };
00032
00033 struct ingStat {
          IngridientType type;
00034
00035
          int quantity;
00036 };
00037
00038 class Ingridient {
00039
        public:
           Ingridient();
00040
00041
              ~Ingridient() = default;
00042
              std::vector<ingStat> fridgeStatus();
00043
0\,0\,0\,4\,4
              /* Getter */
              int getDough() const;
00045
00046
              int getTomato() const;
              int getCheese() const;
00047
00048
              int getHam() const;
00049
              int getMushroom() const;
00050
              int getSteak() const;
00051
              int getEggplant() const;
00052
              int getGoatCheese() const;
00053
              int getChefLove() const;
00054
              int getEgg() const;
              int getBacon() const;
```

```
int getBasil() const;
00057
              int getPepper() const;
00058
00059
              /* Setter */
             void setDough(int dough);
00060
00061
              void setTomato(int tomato);
              void setCheese(int cheese);
00062
00063
              void setHam(int ham);
00064
              void setMushroom(int mushroom);
00065
              void setSteak(int steak);
00066
             void setEggplant(int eggplant);
              void setGoatCheese(int goatCheese);
00067
00068
              void setChefLove(int chefLove);
00069
              void setEgg(int egg);
00070
              void setBacon(int bacon);
00071
              void setBasil(int basil);
00072
              void setPepper(int pepper);
00073
             /* Packing/Unpacking methods */
00075
             std::string packIngredients() const;
00076
              static std::map<IngridientType, int> unpackIngredients(const std::string& packedData);
00077
         private:
00078
00079
             int _dough;
08000
              int _tomato;
00081
             int _cheese;
00082
              int _ham;
00083
             int _mushroom;
00084
             int _steak;
00085
             int _eggplant;
00086
             int _goatCheese;
00087
              int _chefLove;
00088
              int _egg;
00089
              int _bacon;
00090
              int _basil;
00091
              int
                  _pepper;
00092
              std::vector<ingStat> _ingridient;
00093 };
00094
00095 #endif /* !INGRIDIENT_HPP_ */
```

6.6 IPCSocket.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** IPCSocket
00006 */
00007
00008 #ifndef IPCSOCKET_HPP_
00009 #define IPCSOCKET_HPP_
00010
00011 #include <sys/socket.h>
00012 #include <sys/un.h>
00013 #include <unistd.h>
00014 #include <iostream>
00015
00016 #include "IRecipe.hpp"
00017
00018 class IPCSocket {
00019
         public:
00020
             IPCSocket (std::string path);
              ~IPCSocket() = default;
00022
              ssize_t sendMessage(const std::string& msg);
00023
             std::string recvMessage();
00024
00025
              /* Overload */
00026
             // IPCSocket &operator (const IPCSocket &socket, const IReceipy &recipy);
              // IPCSocket &operator»(const IPCSocket &socket,const IReceipy &recipy);
00027
00028
         protected:
         private:
00029
00030
             int _fd;
00031
              std::string _path;
00032 };
00033
00035 #endif /* !IPCSOCKET_HPP_ */
```

6.7 IRecipe.hpp 41

6.7 IRecipe.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** IReceipy
00006 */
00007
00008
00009 #include <memory>
00010 #include "Ingridient.hpp"
00012 #ifndef IRECIPE_HPP_
00013 #define IRECIPE_HPP_
00014
00015 enum Size
00016 {
00017
          Zero = 0,
00018
          S = 1,
00019
          M = 2,
00020
          L = 4
00021
          XL = 8
00022
          XXL = 16
00023 };
00024
00025
00026 class IRecipe {
00027
          public:
00028
00029
              virtual ~IRecipe() = default;
              virtual void cook(int cookTime) = 0;
00031
              virtual std::shared_ptr<Ingridient> prepare(int number, std::shared_ptr<Ingridient>
     ingridient) = 0;
00032
              virtual void serve() = 0;
00033
              /* Getter */
00034
00035
              virtual int getNumber() const = 0;
00036
              /* Setter */
00037
              virtual void setNumber(int number) = 0;
00038
00039 };
00040
00041 #endif /* !IRECEIPY_HPP_ */
```

6.8 Order.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** Order
00006 */
00007
00008 #include <iostream>
00009 #include <sstream>
00010 #include <regex>
00011 #include <string>
00012
00013 #include "APizza.hpp"
00014
00015 struct Order {
00016
          PizzaType type;
          Size size;
00018
           int number;
00019
00020
           static std::string pack(const Order &order) {
00021
              std::ostringstream oss;
               oss « "0x01|" « static_cast<int>(order.type) « "|"
00022
                   « static_cast<int>(order.size) « "|
00023
00024
                    « order.number « ";";
00025
               return oss.str();
00026
          }
00027
00028
          static Order unpack(const std::string &data) {
               Order order = {Nothing, Zero, 0};
std::regex pattern("0x01\\|(\\d+)\\|(\\d+)\\|(\\d+);");
00030
00031
               std::smatch match;
00032
               if (std::regex_match(data, match, pattern)) {
00033
                   order.type = static_cast<PizzaType>(std::stoi(match[1].str()));
order.size = static_cast<Size>(std::stoi(match[2].str()));
00034
00035
                   order.number = std::stoi(match[3].str());
```

6.9 Socket.hpp

```
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** Socket
00006 */
00007
00008 #ifndef SOCKET_HPP_
00009 #define SOCKET_HPP_
00010
00011 #include <sys/socket.h>
00012 #include <sys/un.h>
00013 #include <string>
00014 #include <unistd.h>
00015 #include <memory>
00016 #include "AException.hpp"
00017
00018 class Socket {
00019
00020
          public:
00021
              class SocketException : public AException {
                 public:
00022
00023
                      SocketException(const std::string &message);
00024
              };
00025
00026
              Socket();
              ~Socket();
00028
00029
              // Server operations
00030
              void createServer(const std::string &sockPath);
00031
              void acceptClient();
00032
              void closeServer();
00033
00034
              // Client operations
00035
              void connectToServer(const std::string &sockPath);
00036
              void closeClient();
00037
00038
              // Common operations
              ssize_t send(const std::string &message);
00040
              std::string receive(size_t size = 1024);
00041
              bool isConnected() const;
00042
00043
              // Operators
00044
              Socket& operator«(const std::string &message);
00045
              Socket& operator»(std::string &message);
00046
         private:
00047
           int _serverFd;
int _clientFd;
00048
00049
00050
              struct sockaddr_un _addr;
              std::string _sockPath;
00051
              bool _isServer;
bool _isConnected;
00052
00053
00054 };
00055
00056 #endif /* !SOCKET_HPP_ */
```

6.10 Cooks.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** Cooks
00006 */
00007
00008 #include <iostream>
00009 #include <memory>
00010 #include <mutex>
00011 #include <vector>
00012
00013 #include "../../common/AException.hpp"
00014 #include "../../common/Ingridient.hpp"
```

6.11 Kitchen.hpp 43

```
00015
00016 #ifndef COOKS_HPP_
00017
          #define COOKS_HPP_
00018
00019 class Cooks {
00020
          class ErrorCooks : public AException {
00022
            public:
00023
                ErrorCooks(const std::string &message);
00024
00025
         public:
00026
00027
             Cooks(std::shared_ptr<Ingridient> ingridient, int id,
00028
                  int cookTime, int restockTime);
00029
              ~Cooks() = default;
00030
00031
              /* Method */
              std::shared ptr<Ingridient> startOrder(std::shared ptr<Ingridient> ingridient,
00032
     std::vector<std::string> order);
00033
              void restock();
              bool hasEnoughIngredients(const std::string &orderData, std::shared_ptr<Ingridient>
     ingridient);
00035
00036
              /* Getter */
00037
              int getID() const;
00038
              bool isBusy() const;
00039
              bool isRestocking() const;
00040
00041
         private:
00042
            int _ID;
00043
              int _cookTime;
00044
              int _restockTime;
00045
              std::shared_ptr<Ingridient> _ingridient;
00046
              std::mutex _statusMutex;
              bool _isBusy;
bool _isRestocking;
00047
00048
00049 };
00050
00051 #endif /* !COOKS_HPP_ */
```

6.11 Kitchen.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** Kitchen
00006 */
00007
00008 #ifndef KITCHEN_HPP_
00009 #define KITCHEN_HPP_
00011 #include <iostream>
00012 #include <string>
00013 #include <vector>
00014 #include <queue>
00015 #include <memory>
00016 #include <mutex>
00017 #include <condition_variable>
00018 #include <chrono>
00019 #include <thread>
00020
00021 #include "../../common/Ingridient.hpp"
00022 #include "../../common/Socket.hpp"
00023 #include "../cooks/Cooks.hpp"
00024
00025 class Kitchen {
00026
00027
          class ErrorKitchen : public AException {
00028
              public:
00029
                  ErrorKitchen(const std::string &message);
00030
00031
00032
          public:
               Kitchen(int id, int nbCooks, int cookTime, int restockTime, bool debug);
00033
00034
               ~Kitchen();
00035
00036
               void startKitchenProcess();
00037
               void startKitchen();
00038
               void createCooks();
00039
               void restock();
00040
               void run();
00041
               void processOrder(const std::string &orderData);
```

```
bool canAcceptOrder(int numPizzas);
00043
               void stopKitchen();
00044
               void sendOrder();
00045
00046
               /* Getter */
00047
               int getID() const;
00048
              int getNbCooks() const;
00049
               int getCookTime() const;
00050
               int getRestockTime() const;
00051
               int getMaxCmd() const;
00052
               std::shared_ptr<Ingridient> getIngridient() const;
00053
               std::vector<Cooks*> getCooks() const;
00054
              int getCurrentOrders() const;
00055
00056
          private:
00057
             int _ID;
00058
               int _nbCooks;
00059
               int _cookTime;
               int _restockTime;
00060
00061
               int _maxCmd;
00062
               int _currentOrders;
00063
               bool _isDebug;
00064
00065
              bool _isRunning;
std::chrono::steady_clock::time_point _lastActivity;
00066
00067
               std::mutex _orderMutex;
std::mutex _ingMutex;
00068
00069
               std::condition_variable _cookCV;
00070
               Socket _socket;
00071
               std::shared_ptr<Ingridient> _ingridient;
00072
               std::vector<Cooks*> _cooks;
std::vector<std::thread> _cookThreads;
00073
00074
00075
               std::thread _restockThread;
00076
               std::queue<std::string> _orderQueue;
00077 };
00078
00079 std::ostream& operator«(std::ostream& os, const Kitchen& kitchen);
00080
00081 #endif /* !KITCHEN_HPP_ */
```

6.12 Oven.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** Oven
00006 */
00007
00008 #include <iostream>
00009 #include "../../common/AException.hpp"
00010
00011 #ifndef OVEN_HPP_
00012
          #define OVEN_HPP_
00013
00014 class Oven {
00015
00016
          class ErrorOven : public AException {
00017
          public:
00018
                  ErrorOven(const std::string &message);
00019
          };
00020
00021
         public:
00022
            Oven();
00023
              ~Oven();
00024
00025
          protected:
00026
          private:
00027 };
00029 #endif /* !OVEN_HPP_ */
```

6.13 Plazza.hpp

```
00001 /* 00002 ~**~ EPITECH~PROJECT,~2025 00003 ~**~ B-CCP-400-NAN-4-1-theplazza-albane.merian 00004 ~**~ File~description:
```

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```
00005 ** Plazza
00006 */
00007
00008 #ifndef PLAZZA_HPP_
00009 #define PLAZZA HPP
00010
00011 #include "reception/Reception.hpp"
00012 #include "../common/AException.hpp"
00013
00014 class Plazza {
00015
           class ErrorParsing : public AException {
00016
00017
               public:
00018
                    ErrorParsing(const std::string &message);
00019
00020
          public:
00021
00022
               Plazza();
               ~Plazza();
00024
00025
               void parseCmd(char **av, int ac);
00026
               void orderingLoop();
00027
00028
          private:
               int _nbCooks;
int _timerCooker;
00029
00031
               int _timerRestock;
00032
               bool _debug;
00033
               Reception _reception;
00034 };
00035
00036 #endif /* !PLAZZA_HPP_ */
```

6.14 Reception.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane
00004 ** File description:
00005 ** Reception
00006 */
00007
00008 #include <vector>
00009 #include <sstream>
00010 #include <regex>
00011 #include <map>
00012 #include <thread>
00013 #include <mutex>
00014
00015 #include "../../common/AException.hpp"
00016 #include "../../common/APizza.hpp"
00017 #include "../../common/Socket.hpp"
00018 #include "../kitchen/Kitchen.hpp"
00019
00020
00021 #ifndef RECEPTION_HPP_
00022
         #define RECEPTION_HPP_
00023
00024
00025 class Reception {
00026
00027
          class ErrorReception : public AException {
00028
             public:
                  ErrorReception(const std::string &message);
00030
00031
00032
          public:
00033
             Reception();
00034
              ~Reception();
00035
00036
00037
              void setValues(int nbCooks, int cookTime, int restockTime, bool debug);
00038
              void createKitchen(int id, int nbCooks, int cookTime, int restockTime);
00039
              void destroyKitchen(int id);
00040
              void orderingLoop();
00041
              void interMessaege(std::shared_ptr<Socket> socket, int id);
00042
              std::vector<std::string> checkCommand(const char *command);
00043
              void processOrders(const std::vector<std::string> &orders);
00044
              bool sendOrderToKitchen(const std::string &orderData);
00045
              void monitorKitchens();
00046
              void updateKitchenStat(std::map<IngridientType, int> ingredients,
00047
                   std::shared_ptr<Kitchen> kitchens);
00048
```

```
/* Getter */
00050
              int getNbKitchens() const;
              std::vector<std::shared_ptr<Kitchen» getKitchens() const;</pre>
00051
             std::shared_ptr<Kitchen> getKitchen(int id) const;
00052
00053
        private:
00054
            int _nbCooks;
00056
             int _cookTime;
00057
             int _restockTime;
00058
             int _nbKitchens;
00059
             bool _isDebug;
00060
             bool isRunning:
             std::vector<std::shared_ptr<Kitchen» _kitchens;
00061
00062
             std::map<int, std::shared_ptr<Socket» _kitchenSockets;
00063
              std::mutex _kitchensMutex;
00064
              std::thread _monitorThread;
00065 };
00066
00067 /* Pizza Order overloader */
00069 #endif /* !RECEPTION_HPP_ */
```

6.15 Arrabiata.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** The Plazza
00004 ** File description:
00005 ** Arrabiata
00006 */
00007
00008 #include "../../common/APasta.hpp"
00009
00010 #ifndef ARRABIATA_HPP_
         #define ARRABIATA_HPP_
00012
00013 class Arrabiata : public APasta {
       public:
00014
00015
             Arrabiata(int number);
00016
              ~Arrabiata() override;
00017
00018
00019
             void cook(int cookTime) override;
00020
              std::shared_ptr<Ingridient> prepare(int number, std::shared_ptr<Ingridient> ingridient)
     override;
00021
             void serve() override;
00022
00023
         protected:
00024
         private:
00025 };
00026
00027 #endif /* !ARRABIATA_HPP_ */
```

6.16 Bolognese.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** The Plazza
00004 ** File description:
00005 ** Boloss
00006 */
00007
00008 #include "../../common/APasta.hpp"
00009
00010 #ifndef BOLOGNESE_HPP
         #define BOLOGNESE_HPP_
00011
00012
00013 class Bolognese : public APasta {
00014
       public:
00015
           Bolognese(int number);
00016
             ~Bolognese() override;
00017
             /* Method */
00018
             void cook(int cookTime);
00020
              std::shared_ptr<Ingridient> prepare(int number, std::shared_ptr<Ingridient> ingridient);
00021
              void serve();
00022
00023
         private:
00024 };
00026 #endif /* !BOLOGNESE_HPP_ */
```

6.17 Carbonara.hpp 47

6.17 Carbonara.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** Carbonara
00006 */
00007
00008 #include "../../common/APasta.hpp"
00009
00010 #ifndef CARBONARA_HPP_
          #define CARBONARA_HPP_
00012
00013 class Carbonara : public APasta {
00014
        public:
00015
             Carbonara(int number);
00016
               ~Carbonara() override;
00017
              /* Method */
00018
00019
              void cook(int cookTime) override;
00020
              std::shared_ptr<Ingridient> prepare(int number, std::shared_ptr<Ingridient> ingridient)
override;
00021 vo
               void serve() override;
00022
00023
          private:
00024 };
00025
00026 #endif /* !CARBONAR_HPP_ */
```

6.18 Lasagna.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** The Plazza
00004 ** File description:
00005 ** Lasagna
00006 */
00007
00008 #include "../../common/APasta.hpp"
00009
00010 #ifndef LASAGNA_HPP_
         #define LASAGNA_HPP_
00012
00013 class Lasagna : public APasta {
00014 public:
            Lasagna(int number);
00015
00016
              ~Lasagna() override;
00017
00018
             /* Method */
00019
             void cook(int cookTime) override;
00020
             std::shared_ptr<Ingridient> prepare(int number, std::shared_ptr<Ingridient> ingridient)
     override;
00021
             void serve() override;
00022
         private:
00023
00024 };
00025
00026 #endif /* !LASAGNA_HPP_ */
```

6.19 Paffo.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** The Plazza
00004 ** File description:
00005 ** Paffo
00006 */
00007
00008 #include "../../common/APasta.hpp"
00009
00010 #ifndef PAFFO_HPP_
00011
         #define PAFFO_HPP_
00012
00013 class Paffo : public APasta {
00014
       public:
00015
             Paffo(int number);
00016
             ~Paffo();
00017
```

6.20 Pesto.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** Friteuse
00004 ** File description:
00005 ** Pesto
00006 */
00007
00008 #include "../../common/APasta.hpp"
00009
00010 #ifndef PESTO_HPP_
         #define PESTO_HPP_
00011
00012
00013 class Pesto : public APasta {
00014 public:
00015
           Pesto(int number);
00016
              ~Pesto() override;
00017
00018
             /* Method */
             void cook(int cookTime) override;
00020
              std::shared_ptr<Ingridient> prepare(int number, std::shared_ptr<Ingridient> ingridient)
     override;
00021
              void serve() override;
00022
00023
         private:
00024 };
00025
00026 #endif /* !PESTO_HPP_ */
```

6.21 Americana.hpp

```
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** AmericanaClass
00006 */
00007
00008
00009 #include "../../common/APizza.hpp"
00010
00011 #ifndef AMERICANA HPP
00012 #define AMERICANA_HPP_
00013
00014 class AmericanaClass : public APizza {
       public:
00015
00016
           AmericanaClass(int number);
00017
             ~AmericanaClass() override;
00018
00019
             /* Method */
             void cook(int cookTime) override;
              std::shared_ptr<Ingridient> prepare(int number, std::shared_ptr<Ingridient> ingridient)
     override;
00022
              void serve() override;
00023
00024
         protected:
         private:
00026 };
00027
00028 #endif /* !AMERICANA_HPP_ */
```

6.22 Fantasia.hpp

00001 /*

6.23 Margarita.hpp 49

```
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** FantasiaClass
00006 */
00007
00009 #include "../../common/APizza.hpp"
00010
00011 #ifndef FANTASIA HPP
00012 #define FANTASIA_HPP_
00013
00014 class FantasiaClass : public APizza {
       public:
00015
00016
           FantasiaClass(int number);
00017
              ~FantasiaClass() override;
00018
00019
             void cook(int cookTime) override;
00020
             std::shared_ptr<Ingridient> prepare(int number, std::shared_ptr<Ingridient> ingridient)
     override;
00021
             void serve() override;
00022
00023
         protected:
00024
         private:
00025 };
00027 #endif /* !FANTASIA_HPP_ */
```

6.23 Margarita.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** MargaritaCLASS
00006 */
00007
00008 #include "../../common/APizza.hpp"
00009
00010 #ifndef MARGARITACLASS_HPP_
00011 #define MARGARITACLASS_HPP_
00012
00013 class MargaritaClass : public APizza {
       public:
00014
             MargaritaClass(int number);
00016
              ~MargaritaClass() override;
00017
00018
             void cook(int cookTime) override;
00019
             std::shared_ptr<Ingridient> prepare(int number, std::shared_ptr<Ingridient> ingridient)
     override:
00020
             void serve() override;
00021
00022
00023
         protected:
00024
         private:
00025 };
00026
00027 #endif /* !MARGARITACLASS_HPP_ */
```

6.24 Regina.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** ReginaClass
00006 */
00007
80000
00009 #include "../../common/APizza.hpp"
00010
00011 #ifndef REGINACLASS_HPP_
00012 #define REGINACLASS_HPP_
00013
00014 class ReginaClass : public APizza {
00015
         public:
00016
             ReginaClass(int number);
              ~ReginaClass() override;
00018
```

6.25 Utils.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2025
00003 ** B-CCP-400-NAN-4-1-theplazza-albane.merian
00004 ** File description:
00005 ** Utils
00006 */
00007
00008 #ifndef UTILS_HPP_
00009 #define UTILS_HPP_
00010
00011 class Utils {
00012 public:

00013 Utils() = default;

00014 ~Utils() = default;
00015
00016
                 void helper();
00017
00018
          protected:
00019
            private:
00020 };
00021
00022 #endif /* !UTILS_HPP_ */
```