# COS 214 GroupProj. Documentation

#### **Class List**

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

- **c** Battleship
- **C** BattleshipFactory
- **C** ExplorationFactory
- **C** ExplorationVessel
- **c** FighterFactory
- c FighterTransporter
- c Frigate
- **c** FrigateFactory
- c Spaceship
- **c** SpaceshipFactory
- **c** SpaceshipTransporter
- **c** SpaceTransporterFactory

## **Battleship Class Reference**

#include <Battleship.hpp>

Inheritance diagram for Battleship:



#### **Public Member Functions**

Battleship ()

Battleship constructor.

void SpaceshipDescr ()

Spaceship is inherited from Spaceship parent class but implemented in Battleship class.

▶ Public Member Functions inherited from Spaceship

# **Detailed Description**

Battleship class is a concrete product which inherits publicly from Spaceship

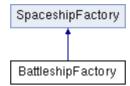
The documentation for this class was generated from the following files:

- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/Battleship.hpp
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/Battleship.cpp

## **BattleshipFactory Class Reference**

#include <BattleshipFactory.hpp>

Inheritance diagram for BattleshipFactory:



#### **Public Member Functions**

Spaceship \* buildSpaceship ()
buildspaceship function for instantiating a spaceship a Battleship spaceship of type
Spaceship class

# **Detailed Description**

**BattleshipFactory** class is concrete factory for instantiating **Battleship** spaceships by inheriting from abstract factory

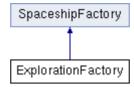
The documentation for this class was generated from the following files:

- /Users/admin/Documents/Second Semester 2019/COS
   214/project2019/COS214GroupProj/COS214GroupProj/BattleshipFactory.hpp
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/BattleshipFactory.cpp

## **ExplorationFactory Class Reference**

#include <ExplorationFactory.hpp>

Inheritance diagram for ExplorationFactory:



#### **Public Member Functions**

Spaceship \* buildSpaceship ()
buildspaceship function for instantiating a spaceship a Exploration spaceship of type
Spaceship class

# **Detailed Description**

**ExplorationFactory** class is concrete factory for instantiating Exploration spaceships by inheriting from abstract factory

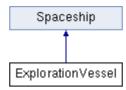
The documentation for this class was generated from the following files:

- /Users/admin/Documents/Second Semester 2019/COS
   214/project2019/COS214GroupProj/COS214GroupProj/ExplorationFactory.hpp
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/ExplorationFactory.cpp

## **ExplorationVessel Class Reference**

#include <ExplorationVessel.hpp>

Inheritance diagram for ExplorationVessel:



#### **Public Member Functions**

**ExplorationVessel ()** 

**ExplorationVessel** constructor.

void SpaceshipDescr ()

Spaceship is inherited from Spaceship parent class but implemented in ExplorationVessel class.

▶ Public Member Functions inherited from Spaceship

# **Detailed Description**

ExplorationVessel class is a concrete product which inherits publicly from Spaceship

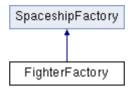
The documentation for this class was generated from the following files:

- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/ExplorationVessel.hpp
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/ExplorationVessel.cpp

## **FighterFactory Class Reference**

#include <FighterFactory.hpp>

Inheritance diagram for FighterFactory:



#### **Public Member Functions**

Spaceship \* buildSpaceship ()

buildspaceship function for instantiating a spaceship a fighter spaceship of type **Spaceship** class

# **Detailed Description**

FighterFactory class is concrete factory for instantiating Fighter spaceships by inheriting from abstract factory

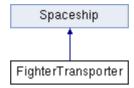
The documentation for this class was generated from the following files:

- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/FighterFactory.hpp
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/FighterFactory.cpp

# FighterTransporter Class Reference

#include <FighterTransporter.hpp>

Inheritance diagram for FighterTransporter:



#### **Public Member Functions**

FighterTransporter ()

FighterTransporter constructor.

void SpaceshipDescr ()

Spaceship is inherited from Spaceship parent class but implemented in FighterTransporter class.

▶ Public Member Functions inherited from Spaceship

# **Detailed Description**

FighterTransporter class is a concrete product which inherits publicly from Spaceship

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

- /Users/admin/Documents/Second Semester 2019/COS
   214/project2019/COS214GroupProj/COS214GroupProj/FighterTransporter.hpp
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/FighterTransporter.cpp

## **Frigate Class Reference**

#include <Frigate.hpp>

Inheritance diagram for Frigate:



#### **Public Member Functions**

Frigate ()

Frigate constructor.

void SpaceshipDescr ()

Spaceship is inherited from Spaceship parent class but implemented in Frigate class.

▶ Public Member Functions inherited from Spaceship

# **Detailed Description**

Frigate class is a concrete product which inherits publicly from Spaceship

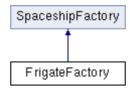
The documentation for this class was generated from the following files:

- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/Frigate.hpp
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/Frigate.cpp

# FrigateFactory Class Reference

#include <FrigateFactory.hpp>

Inheritance diagram for FrigateFactory:



#### **Public Member Functions**

Spaceship \* buildSpaceship ()

buildspaceship function for instantiating a spaceship a **Frigate** spaceship of type **Spaceship** class

# **Detailed Description**

FrigateFactory class is concrete factory for instantiating Frigate spaceships by inheriting from abstract factory

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

- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/FrigateFactory.hpp
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/FrigateFactory.cpp

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### Spaceship Class Reference [abstract]



# **Detailed Description**

Spaceship class acts as Abstract product class in Abstract Factory pattern

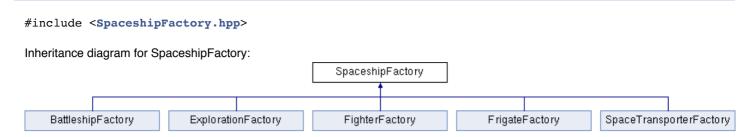
### **Member Function Documentation**



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

- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/Spaceship.hpp
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/Spaceship.cpp

### SpaceshipFactory Class Reference [abstract]



#### **Public Member Functions**

virtual Spaceship \* buildSpaceship ()=0

pure virtual function that provides interface for creating spaceships but is only implemented in child classes

### **Detailed Description**

SpaceshipFactory acts at the abstract factory in the AF pattern

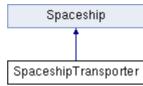
The documentation for this class was generated from the following file:

 /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/SpaceshipFactory.hpp

## SpaceshipTransporter Class Reference

#include <SpaceshipTransporter.hpp>

Inheritance diagram for SpaceshipTransporter:



#### **Public Member Functions**

SpaceshipTransporter ()

SpaceshipTransporter constructor.

void SpaceshipDescr ()

Spaceship is inherited from Spaceship parent class but implemented in SpaceshipTransporter class.

▶ Public Member Functions inherited from Spaceship

# **Detailed Description**

SpaceshipTransporter class is a concrete product which inherits publicly from Spaceship

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

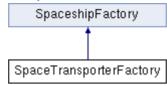
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/SpaceshipTransporter.hpp
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/SpaceshipTransporter.cpp

Generated by

## SpaceTransporterFactory Class Reference

#include <SpaceTransporterFactory.hpp>

Inheritance diagram for SpaceTransporterFactory:



#### **Public Member Functions**

Spaceship \* buildSpaceship ()

buildspaceship function for instantiating a spaceship a space transporter spaceship of type **Spaceship** class

# **Detailed Description**

**SpaceTransporterFactory** class is concrete factory for instantiating space transporter spaceships by inheriting from abstract factory

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

- /Users/admin/Documents/Second Semester 2019/COS
   214/project2019/COS214GroupProj/COS214GroupProj/SpaceTransporterFactory.hpp
- /Users/admin/Documents/Second Semester 2019/COS 214/project2019/COS214GroupProj/COS214GroupProj/SpaceTransporterFactory.cpp

#### **File List**

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

[detail level 1 2 3 4 5 6 7 8 9]

**▼** Users

**▼** admin

**▼** Documents

**▼** Second Semester 2019

▼ COS 214

▼ project2019

**▼** COS214GroupProj

**▼** COS214GroupProj

Battleship.hpp

BattleshipFactory.hpp

**ExplorationFactory.hpp** 

ExplorationVessel.hpp

FighterFactory.hpp

FighterTransporter.hpp

Frigate.hpp

FrigateFactory.hpp

Spaceship.hpp

SpaceshipFactory.hpp

SpaceshipTransporter.hpp

SpaceTransporterFactory.hpp

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