Package Deilvery

Generated by Doxygen 1.8.11

## **Contents**

Index

1	CS3528_Project										
2	Clas	s Index			3						
	2.1	Class I	_ist		3						
3	Clas	s Docu	mentation		5						
	3.1	Client	Class Refe	erence	5						
		3.1.1	Detailed	Description	5						
		3.1.2	Construc	tor & Destructor Documentation	6						
			3.1.2.1	Client(const string &, const string &)	6						
		3.1.3	Member	Function Documentation	6						
			3.1.3.1	getAddress() const	6						
			3.1.3.2	getName() const	6						
			3.1.3.3	getReceivedPackages() const	6						
			3.1.3.4	getSentPackages() const	6						
			3.1.3.5	receivePackage(Package *pack)	6						
			3.1.3.6	sendPackage(Package *pack)	7						
			3.1.3.7	setAddress(const string &)	7						
			3.1.3.8	setName(const string &)	7						
	3.2	Packag	ge Class R	eference	7						
		3.2.1	Detailed	Description	8						
		3.2.2	Construc	tor & Destructor Documentation	8						
			3.2.2.1	Package(Client *, Client *, const double, const Priority)	8						
		3.2.3	Member	Function Documentation	8						
			3.2.3.1	getPriority() const	8						
			3.2.3.2	getReceiver() const	9						
			3.2.3.3	getSender() const	9						
			3.2.3.4	getWeight() const	9						
			3.2.3.5	setPriority(const Priority)	9						
			3.2.3.6	setReceiver(Client *)	10						
			3.2.3.7	setSender(Client *)	10						
			3.2.3.8	setWeight(const double)	10						

11

# **Chapter 1**

# CS3528\_Project

Final project for class CS3528

2 CS3528\_Project

## Chapter 2

## **Class Index**

## 2.1 Class List

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

Client																
	Client class .	 	 	 	 											5
Package																
	Package class	 	 	 	 											7

4 Class Index

## **Chapter 3**

## **Class Documentation**

### 3.1 Client Class Reference

#### Client class.

```
#include <Client.h>
```

#### **Public Member Functions**

• Client (const string &, const string &)

Client basic constructor.

void setName (const string &)

Setter for name.

• string getName () const

Getter for name.

void setAddress (const string &)

Setter for address.

• string getAddress () const

Getter for address.

void sendPackage (Package \*pack)

Add a sent package.

vector< Package \* > getSentPackages () const

Get sent packages.

• void receivePackage (Package \*pack)

Add a received package.

vector< Package \* > getReceivedPackages () const

Get received packages.

### 3.1.1 Detailed Description

#### Client class.

This client class defines a citizen of the town who can send and receive packages. Each person has a name, address, and vectors representing records of all packages sent and received.

6 Class Documentation

### 3.1.2 Constructor & Destructor Documentation

3.1.2.1 Client::Client (const string & name, const string & address)

Client basic constructor.

Constructor.

Basic constructor takes strings for name and address.

#### **Parameters**

&name	reference to client's name
&address	reference to client's address

#### 3.1.3 Member Function Documentation

3.1.3.1 string Client::getAddress ( ) const

Getter for address.

Returns

Street Address

3.1.3.2 string Client::getName ( ) const

Getter for name.

Returns

name

3.1.3.3 vector < Package \* > Client::getReceivedPackages ( ) const

Get received packages.

Returns

Vector of received packages

3.1.3.4 vector < Package \* > Client::getSentPackages ( ) const

Get sent packages.

Returns

Vector of sent packages

3.1.3.5 void Client::receivePackage ( Package \* pack )

Add a received package.

#### **Parameters**

3.1.3.6 void Client::sendPackage ( Package \* pack )

Add a sent package.

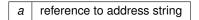
#### **Parameters**

pointer	to package

3.1.3.7 void Client::setAddress (const string & a)

Setter for address.

#### **Parameters**



3.1.3.8 void Client::setName (const string & n)

Setter for name.

### **Parameters**

```
n reference to name string
```

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

- · Client.h
- Client.cpp

## 3.2 Package Class Reference

### Package class.

```
#include <Package.h>
```

### **Public Types**

enum Priority { REGULAR, TWO\_DAY, OVERNIGHT }

8 Class Documentation

#### **Public Member Functions**

Package (Client \*, Client \*, const double, const Priority)

Constructor.

∼Package ()

Destructor.

void setSender (Client \*)

Sender setter.

• Client \* getSender () const

Sender getter.

void setReceiver (Client \*)

Receiver setter.

• Client \* getReceiver () const

Receiver getter.

• void setWeight (const double)

Weight setter.

• double getWeight () const

Weight getter.

• void setPriority (const Priority)

Priority setter.

• Priority getPriority () const

Priority getter.

### 3.2.1 Detailed Description

### Package class.

This Package class defines a package which was sent by a Client and received by a Client. Each package has a priority, a weight, and two clients (a sender and receiver).

#### 3.2.2 Constructor & Destructor Documentation

3.2.2.1 Package::Package ( Client \* s, Client \* r, const double w, const Priority p)

Constructor.

#### **Parameters**

s	Sender Client
r	Receiver Client
W	Package weight
р	Package priority

#### 3.2.3 Member Function Documentation

3.2.3.1 Package::Priority Package::getPriority ( ) const

Priority getter.

```
Package priority getter.
Returns
      Package priority
3.2.3.2 Client * Package::getReceiver ( ) const
Receiver getter.
Returns
      pointer to receiver client
3.2.3.3 Client * Package::getSender ( ) const
Sender getter.
Returns
      pointer to sender client
3.2.3.4 double Package::getWeight ( ) const
Weight getter.
Package Weight getter.
Returns
      Package weight
3.2.3.5 void Package::setPriority ( const Priority p )
Priority setter.
Package Priority setter.
Parameters
      Priority enum
```

10 Class Documentation

3.2.3.6 void Package::setReceiver ( Client \* r )

Receiver setter.

Parameters

r pointer to receiver client

3.2.3.7 void Package::setSender ( Client \* s )

Sender setter.

Parameters

s pointer to sender client

3.2.3.8 void Package::setWeight ( const double w )

Weight setter.

Package weight setter.

Throws error on negative weight.

Parameters

w Package weight

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

- Package.h
- · Package.cpp

## Index

Client, 5 Client, 6 getAddress, 6 getName, 6 getReceivedPackages, 6 getSentPackages, 6 receivePackage, 6 sendPackage, 7 setAddress, 7 setName, 7	setReceiver Package, 9 setSender Package, 10 setWeight Package, 10
getAddress Client, 6 getName Client, 6 getPriority Package, 8 getReceivedPackages Client, 6 getReceiver Package, 9 getSender Package, 9 getSentPackages Client, 6 getWeight Package, 9	
Package, 7 getPriority, 8 getReceiver, 9 getSender, 9 getWeight, 9 Package, 8 setPriority, 9 setReceiver, 9 setSender, 10 setWeight, 10	
receivePackage Client, 6  sendPackage Client, 7  setAddress Client, 7  setName Client, 7  setPriority	

Package, 9