

Package Deilvery

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Chapter 1

CS3528_Project

Final project for class CS3528

Chapter 2

Class Index

2.1 Class List

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

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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](#) (const [Package](#) &pack)
Add a sent package.
- vector< [Package](#) * > [getSentPackages](#) () const
Get sent packages.
- void [receivePackage](#) (const [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.

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

<i>&name</i>	reference to client's name
<i>&address</i>	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 (const Package & pack)`

Add a received package.

Parameters

<i>pointer</i>	to package
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3.1.3.6 void Client::sendPackage (const Package & *pack*)

Add a sent package.

Parameters

<i>pointer</i>	to package
----------------	------------

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

Setter for address.

Parameters

<i>a</i>	reference to address string
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3.1.3.8 void Client::setName (const string & *n*)

Setter for name.

Parameters

<i>n</i>	reference to name string
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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** }

Public Member Functions

- [Package](#) ([Client](#) &s, [Client](#) &r, double w, Priority p)
Constructor.
- [~Package](#) ()
Destructor.
- void [setSender](#) (const [Client](#) &s)
Sender setter.
- [Client](#) * [getSender](#) () const
Sender getter.
- void [setReceiver](#) (const [Client](#) &r)
Receiver setter.
- [Client](#) * [getReceiver](#) () const
Receiver getter.
- void [setWeight](#) (const double w)
Weight setter.
- double [getWeight](#) () const
Weight getter.
- void [setPriority](#) (const Priority p)
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, double w, Priority p)

Constructor.

Parameters

<i>s</i>	Sender Client
<i>r</i>	Receiver Client
<i>w</i>	Package weight
<i>p</i>	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

<i>p</i>	Priority enum
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3.2.3.6 void Package::setReceiver (const Client & r)

Receiver setter.

Parameters

<i>r</i>	pointer to receiver client
----------	----------------------------

3.2.3.7 void Package::setSender (const Client & s)

Sender setter.

Parameters

<i>s</i>	pointer to sender client
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3.2.3.8 void Package::setWeight (const double w)

Weight setter.

[Package](#) weight setter.

Throws error on negative weight.

Parameters

<i>w</i>	Package weight
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The documentation for this class was generated from the following files:

- Package.h
- Package.cpp

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