Classes Diagram and Details

Package in package 'Model'

Classes Diagram and Details Version Phase 1.0 Proposed Zakelis created on 25/02/2018. Last modified 25/02/2018

Class diagram

Class diagram in package 'Classes Diagram and Details'

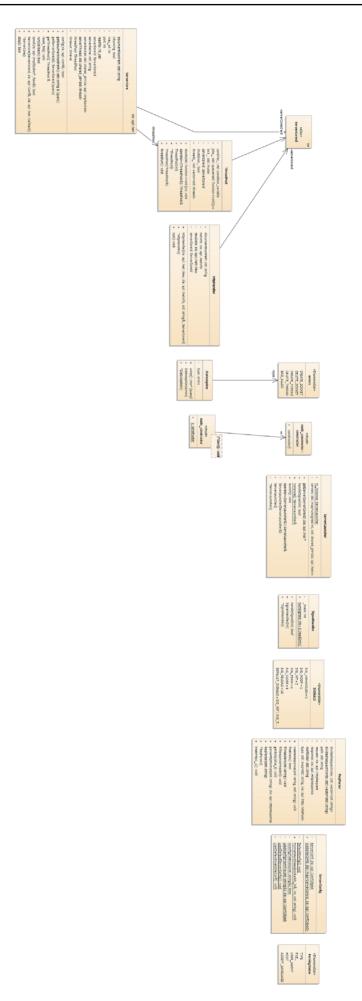


Figure 1: Class

scandirpp

Package in package 'Classes Diagram and Details'

scandirpp Version 1.0 Phase 1.0 Proposed Zakelis created on 25/02/2018. Last modified 25/02/2018

scandirpp diagram

Class diagram in package 'scandirpp'

scandirpp Version 1.0 Zakelis created on 25/02/2018. Last modified 25/02/2018

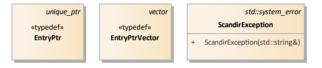


Figure 2: scandirpp

EntryPtr

Class «typedef» in package 'scandirpp'

EntryPtr
Version 1.0 Phase 1.0 Proposed
Zakelis created on 25/02/2018. Last modified 25/02/2018
Extends unique_ptr

EntryPtrVector

Class «typedef» in package 'scandirpp'

EntryPtrVector
Version 1.0 Phase 1.0 Proposed
Zakelis created on 25/02/2018. Last modified 25/02/2018
Extends vector

ScandirException

Class in package 'scandirpp'

ScandirException
Version 1.0 Phase 1.0 Proposed
Zakelis created on 25/02/2018. Last modified 25/02/2018
Extends std::system_error

OPERATIONS

ScandirException (dir : std::string&): Public

Properties:

initializer = std::system error(errno, std::system category(), std::string("Error scanning directory \"" + dir + "\"").c str())

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

HttpHandler

Class in package 'Classes Diagram and Details'

HttpHandler Version 1.0 Phase 1.0 Proposed Zakelis created on 25/02/2018. Last modified 25/02/2018

ATTRIBUTES documentRootPath : std::string Private [Is static False. Containment is Not Specified.] netInfo : zia::api::NetInfo Private [Is static False. Containment is Not Specified.] rawData: zia::api::Net::Raw Private [Is static False. Containment is Not Specified.] serverCoreId : ServerCoreId Private [Is static False. Containment is Not Specified.]

ASSOCIATIONS



Association (direction: Source -> Destination)

Source: Public (Class) HttpHandler

Target: Private serverCoreId (Class) ServerCoreId «alias»

OPERATIONS

🎙 HttpHandler (rawData : zia::api::Net::Raw , netInfo : zia::api::NetInfo , documentRootPath : std::string& , serverCoreId : ServerCoreId): Public

Properties:

explicit = true

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

~HttpHandler (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ReqParser

Class in package 'Classes Diagram and Details'

ReqParser Version 1.0 Phase 1.0 Proposed Zakelis created on 25/02/2018. Last modified 25/02/2018

ATTRIBUTES	
dividedRequestLines: std::vector <std::string> Private</std::string>	[Is static False. Containment is Not Specified.]
dividedRequestWords: std::vector <std::string> Private</std::string>	[Is static False. Containment is Not Specified.]
path: std::string Private	[Is static False. Containment is Not Specified.]
request : zia::api::HttpRequest Private	[Is static False. Containment is Not Specified.]
response : zia::api::HttpResponse Private	[Is static False. Containment is Not Specified.]
	[Is static False. Containment is Not Specified.]
type: std::map <std::string, zia::api::http::method=""> Private</std::string,>	[Is static False. Containment is Not Specified.]

OPERATIONS

• fillResponseHeader (): void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

getBody (prm1 : size t) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

parseHttpFormat (prm1 : std::string) : zia::api::HttpResponse Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ReqParser (_rootfolder : std::string) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

~ReqParser () : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

treatHttp1 1 (): void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ServerConfig

Class in package 'Classes Diagram and Details'

ServerConfig

Version 1.0 Phase 1.0 Proposed

Zakelis created on 25/02/2018. Last modified 25/02/2018

ATTRIBUTES

ServerConf : zia::api::ConfObject Private

[Is static True. Containment is Not Specified.]

WebSiteConfs: std::map<ServerCoreId, zia::api::ConfObject> Public

[Is static True. Containment is Not Specified.]

OPERATIONS

DefaultConfig (): void Private

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

FormatIPAddress (addr: sockaddr in&, port: int, host: std::string): void Public

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

isConfigFileExists (path : std::string&) : bool Private

[Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS	
LoadConfigFromFile (prm)	: std::string&): zia::api::ConfObject Private [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]
LoadDefaultServerConfig (): void Private [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]
LoadDefaultWebSiteConf (): void Private [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

ServerCore

Class in package 'Classes Diagram and Details'

ServerCore
Version 1.0 Phase 1.0 Proposed
Zakelis created on 25/02/2018. Last modified 25/02/2018
Extends zia::api::Net

ATTRIBUTES	
documentRootPath: std::string Private	[Is static False. Containment is Not Specified.]
isRunning: bool Private	[Is static False. Containment is Not Specified.]
max_sd: int Private	[Is static False. Containment is Not Specified.]
port : int Private	[Is static False. Containment is Not Specified.]
	[Is static False. Containment is Not Specified.]
◆ serverCoreId : ServerCoreId Private	[Is static False. Containment is Not Specified.]
◆ serverName : std::string Private	[Is static False. Containment is Not Specified.]
◆ serverSocket : std::shared_ptr <zia::api::implsocket> Private</zia::api::implsocket>	[Is static False. Containment is Not Specified.]

Association (direction: Source -> Destination) Source: Public (Class) ServerCore Target: Private serverCoreId (Class) ServerCoreId (alias) Association (direction: Source -> Destination) Source: Public (Class) ServerCore Target: Private threadPool (Class) ThreadPool

OPERATIONS config (conf : zia::api::Conf&) : bool Public Properties: override = true [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] getDocumentRootPath (): std::string & Public Const [Is static False. Is abstract False. Is return array False. Is query True . Is synchronized False.] getServerCoreId () : ServerCoreId Public [Is static False. Is abstract False. Is return array False. Is query True . Is synchronized False.] getThreadPool (): ThreadPool & Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] reset_fds () : void Private [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] run (cb : Callback) : bool Public Properties: override = true [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] send (sock : zia::api::ImplSocket*, resp : Raw&) : bool Public

OPERATIONS	
Properties: override = true	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
ServerCore (serverCoreId	: ServerCoreId, conf: zia::api::Conf&, callback: zia::api::Net::Callback): Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
stop (): bool Public Properties: override = true	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ServerCoreId

Class «alias» in package 'Classes Diagram and Details'

ServerCoreId Version 1.0 Phase 1.0 Proposed Zakelis created on 25/02/2018. Last modified 25/02/2018 Extends int

ASSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) ThreadPool	Target: Private serverCoreId (Class) ServerCoreId «alias»
/ Association (direction: Source -> Destination)	
Source: Public (Class) ServerCore	Target: Private serverCoreId (Class) ServerCoreId «alias»
Association (direction: Source -> Destination)	
Source: Public (Class) HttpHandler	Target: Private serverCoreId (Class) ServerCoreId «alias»

ServerLauncher

Class in package 'Classes Diagram and Details'

ServerLauncher Version 1.0 Phase 1.0 Proposed

Zakelis created on 25/02/2018. Last modified 25/02/2018

[Is static False. Containment is Not Specified.] **OPERATIONS** getServer (serverCoreId : ServerCoreId) : zia::api::Net * Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] handleSignal (signal: int): bool Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] Instance (): ServerLauncher& Public [Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False.] launch () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] operator=(prm1 : ServerLauncher&) : ServerLauncher& Private Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] ServerLauncher (prm1 : ServerLauncher&) : Private Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] ServerLauncher (): Private [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] ~ServerLauncher (): Private [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

SignalHandler

Class in package 'Classes Diagram and Details'

SignalHandler Version 1.0 Phase 1.0 Proposed

Zakelis created on 25/02/2018. Last modified 25/02/2018

ELEMENTS OWNED BY SignalHandler

■ SIGNALS : Enumeration «Enumeration»

ATTRIBUTES

mask: int Private

[Is static False. Containment is Not Specified.]

numSignals: int Public Const = 6

[Is static True. Containment is Not Specified.]

OPERATIONS

handleSignal (signal : int) : bool Public

[Is static False. Is abstract True. Is return array False. Is query False. Is synchronized False.]

SignalHandler (mask : int) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

~SignalHandler (): Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

SIGNALS

Enumeration «Enumeration» owned by 'SignalHandler', in package 'Classes Diagram and Details'

SIGNALS

Version 1.0 Phase 1.0 Proposed Zakelis created on 25/02/2018. Last modified 25/02/2018

ATTRIBUTES

Physical signal not supported by this class

[Is static False. Containment is Not Specified.]

SIG_NOOP : Public = 1

The application is requested to do a no-op (only a target that platform-specific signals map to when they can't be raised anyway)

[Is static False. Containment is Not Specified.]

Control+C (should terminate but consider that it's a normal way to do so; can delay a bit)

[Is static False. Containment is Not Specified.]

ThreadPool

Class in package 'Classes Diagram and Details'

ThreadPool Version 1.0 Phase 1.0 Proposed Zakelis created on 25/02/2018. Last modified 25/02/2018

ATTRIBUTES	
condVar_: std::condition_variable Private	[Is static False. Containment is Not Specified.]
<pre>jobs_: std::queue<std::function ()="" <void="">> Private</std::function></pre>	[Is static False. Containment is Not Specified.]
lock_: std::mutex Private	[Is static False. Containment is Not Specified.]
serverCoreId : ServerCoreId Private	[Is static False. Containment is Not Specified.]
	[Is static False. Containment is Not Specified.]
threads_: std::vector <std::thread> Private</std::thread>	[Is static False. Containment is Not Specified.]

Association (direction: Source -> Destination) Source: Public (Class) ThreadPool Target: Private serverCoreId (Class) ServerCoreId (alias) Association (direction: Source -> Destination)

OPERATIONS

doJob (func : std::function <void ()>) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Target: Private threadPool (Class) ThreadPool

operator=(prm1: ThreadPool&): ThreadPool& Public

Properties:

bodyLocation = classDec

Source: Public (Class) ServerCore

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ThreadPool (nbThreads : int) : Public

Properties:

explicit = true

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

♦ ~ThreadPool () : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ThreadPool (prm1 : ThreadPool&) : Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

where threadRun (): void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ZiaException

Class in package 'Classes Diagram and Details'

ZiaException Version 1.0 Phase 1.0 Proposed Zakelis created on 25/02/2018. Last modified 25/02/2018

ELEMENTS OWNED BY ZiaException

25 February, 2018 Model Report

ELEMENTS OWNED BY ZiaException

errors: Enumeration «Enumeration»

ATTRIBUTES

vype: errors Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) ZiaException

Target: Private type (Enumeration) errors «Enumeration»

OPERATIONS

what (): char* Public Const

Properties:

throws = ()

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query True . Is synchronized False.]

ZiaException (type : errors) : Public

Properties:

throws = ()

initializer = type(_type)

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

~ZiaException () : Public

Properties:

throws = ()

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

errors

Enumeration «Enumeration» owned by 'ZiaException', in package 'Classes Diagram and Details'

Version 1.0 Phase 1.0 Proposed Zakelis created on 25/02/2018. Last modified 25/02/2018

ATTRIBUTES

CREATE SOCKET: Public

[Is static False. Containment is Not Specified.]

ATTRIBUTES	
DELETE_SOCKET: Public	[Is static False. Containment is Not Specified.]
	[Is static False. Containment is Not Specified.]
◆ DELETE_THREAD : Public	[Is static False. Containment is Not Specified.]
	[Is static False. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) ZiaException

Target: Private type (Enumeration) errors «Enumeration»

static_constructor

Class «struct» in package 'Classes Diagram and Details'

static_constructor
Version 1.0 Phase 1.0 Proposed
Zakelis created on 25/02/2018. Last modified 25/02/2018

ELEMENTS OWNED BY static_constructor

■ constructor : Class «struct»

ATTRIBUTES

c : constructor Public

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) static_constructor «struct» Target: Public c (Class) constructor «struct»

constructor

Class «struct» owned by 'static constructor', in package 'Classes Diagram and Details'

constructor Version 1.0 Phase 1.0 Proposed

Zakelis created on 25/02/2018. Last modified 25/02/2018

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) static_constructor «struct»

Target: Public c (Class) constructor «struct»

OPERATIONS



onstructor (): Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ParsingStatus

Enumeration «Enumeration» in package 'Classes Diagram and Details'

ParsingStatus Version 1.0 Phase 1.0 Proposed Zakelis created on 25/02/2018. Last modified 25/02/2018

ATTRIBUTES	
▼ TYPE: Public	[Is static False. Containment is Not Specified.]
FILE_: Public	[Is static False. Containment is Not Specified.]
	[Is static False. Containment is Not Specified.]
HOST: Public	[Is static False. Containment is Not Specified.]
	[Is static False. Containment is Not Specified.]