

Class name:

ApplicationBuffer

Package: GI

Documentation:

Its objects represent the application code buffer to be recognised.

External Documents:

Export Control: Public

Cardinality: n

Hierarchy:

Superclasses: none

Associations:

<no rolename> : GI in association <unnamed>

Private Interface:

Attributes:

code : string

Application code.

position : int

Character position being recognised in the buffer.

text : string

Text post-recognition. Skip tokens has being eliminated.

State machine: No

Concurrency: Sequential

Persistence: Transient

Class name:

Application

Package: appSpec

Documentation:

Application definition Class; its objects define an application and its language.

External Documents:

Export Control: Public

Cardinality: n

Hierarchy:

Superclasses: none

Associations:

<no rolename> : NitrO in association <unnamed>

window : AppWindow in association <unnamed>

rootNode : TreeNode in association <unnamed>

<no rolename> : GI in association <unnamed>

Public Interface:

Operations:

describe

Private Interface:

Attributes:

name : string

Application identification.

language : Language

Language specification in which the application has been written.

rootNode : TreeNode

Application-tree start node.

sourceCode : string

Application source code.

applicationGlobalContext

Runtime application symbol table.

isRunning : Boolean

Tells if the application is running.

window : AppWindow

Application window.

nitro : Nitro

nitro global object.

State machine:

No

Concurrency:

Sequential

Persistence:

Transient

Operation name:

describe

Public member of:

Application

Return Class:

string

Documentation:

Gives us information related to the application at runtime.

Concurrency: Sequential

State machine:

No

Class name:

Nitro

Package:

nitro

Documentation:

This is the main class in the system; it follows de Facade design pattern. It must have just one instance -Singleton pattern.

Stereotype: singleton

External Documents:

Export Control: Public

Cardinality: 1..1

Hierarchy:

Superclasses: none

Associations:

apps : Application in association <unnamed>
scanner : Scanner in association <unnamed>
shell : MainWindow in association <unnamed>
<no rolename> : Gl in association <unnamed>

Public Interface:

Operations:

describe
loadApplication
loadLanguage
execute
executeFile
run
stop

Private Interface:

Attributes:

apps
The group of applications that are active (not necessary running) in the system.

scanner : Application
The application file scanner (lexer).

dir : string
The system's directory installation.

shell : MainWindow
A reference to the system's shell.

State machine: No

Concurrency: Sequential

Persistence: Transient

Operation name:

describe

Public member of: Nitro

Return Class: string

Documentation:

A system's description string is returned. This description shows the existing application and language set.

Concurrency: Sequential

State machine: No

Operation name:

loadApplication

Public member of: Nitro

Documentation:

Loads the application code and language into the nitro system; returns the app object

Concurrency: Sequential

State machine: No

Operation name:

loadLanguage

Public member of: Nitro

Documentation:

Loads the language specification; it may be used a file (languageName) or the language specification (languageSpec). Returns the object-grammar language specification.

Concurrency: Sequential

State machine: No

Operation name:

execute

Public member of: Nitro

Documentation:

Executes the source code of an application in the nitro system.

Concurrency: Sequential

State machine: No

Operation name:

executeFile

Public member of: Nitro

Documentation:

Executes a nitro application specified in a file.

Concurrency: Sequential

State machine: No

Operation name:

run

Public member of: Nitro

Documentation:

Starts the system's main loop to initialize its execution.

Concurrency: Sequential

State machine: No

Operation name:

stop

Public member of: Nitro

Arguments:

string applD

Documentation:

Stops an application that is running by passing its name.

Concurrency: Sequential

State machine: No

Class name:

GI

Package: GI

Documentation:

Generic interpreter that evaluates and application in the nitro system.

External Documents:

Export Control: Public

Cardinality: n

Hierarchy:

Superclasses: none

Associations:

buffer : ApplicationBuffer in association <unnamed>

application : Application in association <unnamed>

nitro : Nitro in association <unnamed>

Public Interface:

Operations:

objectsCreation

evaluate

clearSkip

clearNotSkip

clearBuffer

Private Interface:

Attributes:

application : Application

Application to be evaluated.

buffer : ApplicationBuffer
Application buffer.

nitro : NitroO
Global nitro Facade object.

State machine: No
Concurrency: Sequential
Persistence: Transient

Operation name:

objectsCreation

Public member of: GI

Documentation:

Method that creates the object grammar and the object application tree. Returns the generic interpreter instance (text, application...).

Concurrency: Sequential
State machine: No

Operation name:

evaluate

Public member of: GI

Documentation:

Method that executes the application.

Concurrency: Sequential
State machine: No

Operation name:

clearSkip

Public member of: GI

Documentation:

Clear every 'Skip' token in the source code at the current position.

Concurrency: Sequential
State machine: No

Operation name:

clearNotSkip

Public member of: GI

Documentation:

Takes every sequence of 'NotSkip' token and returns it.

Concurrency: Sequential

State machine: No

Operation name:

clearBuffer

Public member of: GI

Documentation:

Clears the 'Skip' tokens and takes the 'NotSkip' ones. Returns the sequence of 'NotSkip' tokens.

Concurrency: Sequential

State machine: No

Association:

Derived: No

Direction: <non-directional>

Association Class: none

Role: apps

Class: Application

Cardinality / Multiplicity: n

Navigable: Yes

Aggregate: No

Static: No

Friend: No

Access: Implementation

Containment: Unspecified

Role:

Class: Nitro

Cardinality / Multiplicity:

Navigable: No

Aggregate: Yes

Static: No

Friend: No

Access: Public

Containment: Unspecified

Keys / Qualifiers:

applD : string

Association:

Derived: No

Direction: <non-directional>
Association Class: none

Role: buffer
Class: ApplicationBuffer
Cardinality / Multiplicity: 1
Navigable: Yes
Aggregate: No
Static: No
Friend: No
Access: Implementation
Containment: Unspecified

Role:
Class: GI
Cardinality / Multiplicity:
Navigable: No
Aggregate: Yes
Static: No
Friend: No
Access: Public
Containment: Unspecified

Association:

Derived: No
Direction: <non-directional>
Association Class: none

Role: application
Class: Application
Cardinality / Multiplicity: 1
Navigable: Yes
Aggregate: No
Static: No
Friend: No
Access: Implementation
Containment: Unspecified

Role:
Class: GI
Cardinality / Multiplicity:
Navigable: No
Aggregate: No
Static: No
Friend: No
Access: Public
Containment: Unspecified

Association:

Derived: No
Direction: <non-directional>
Association Class: none

Role: nitro
Class: Nitro
Cardinality / Multiplicity: 1
Navigable: Yes
Aggregate: No
Static: No
Friend: No
Access: Implementation
Containment: Unspecified

Role:
Class: GI
Cardinality / Multiplicity:
Navigable: No
Aggregate: No
Static: No
Friend: No
Access: Public
Containment: Unspecified