Model Report

Návrhová dokumentace (Design)

Version 1.0 ● Proposed

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Class Diagram
Version 1.0 Phase 1.0 Proposed
Jan created on 14.03.2016. Last modified 14.03.2016

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Interface-AST View
Version 1.0
Luis created on 26.03.2016. Last modified 15.04.2016
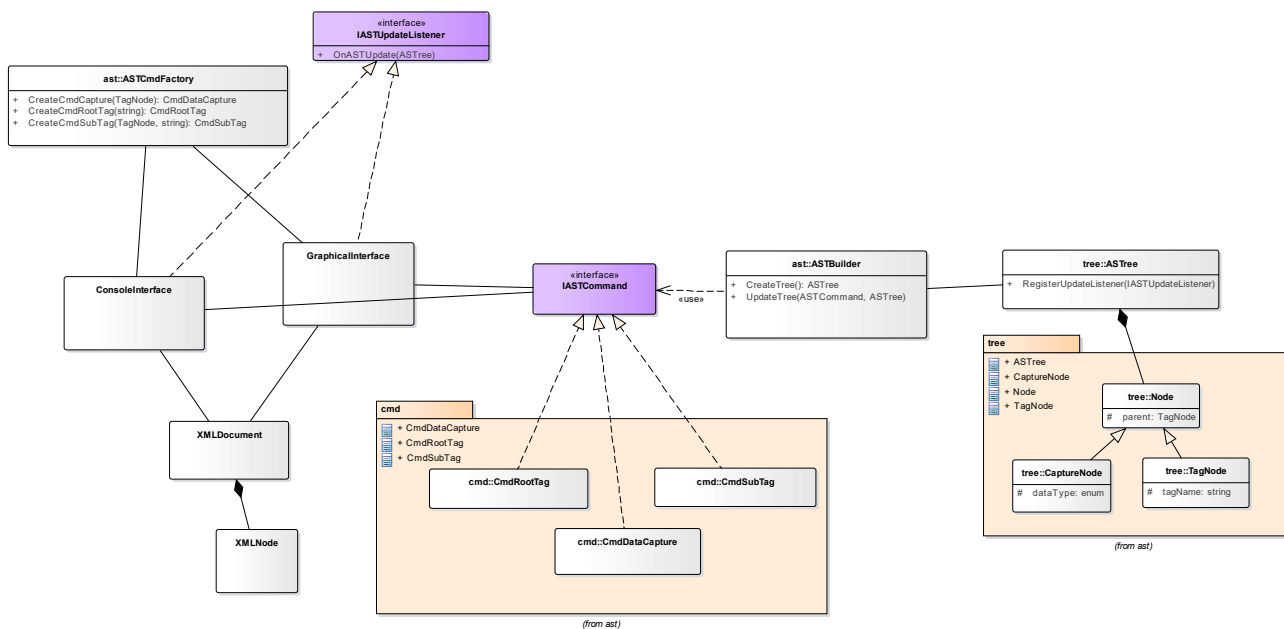
Figure 1:   Interface-AST View

ASTBuilder

Class in package 'ast'

(*AbstractSyntaxTree*)Builder

Podle prijatých **ASTCommand** generuje **ASTree**.

ASTBuilder
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 26.03.2016

CONNECTORS

  . **Usage**   Source -> Destination
From: ASTBuilder : Class, Public
To: IASTCommand : Interface, Public

ASSOCIATIONS

  . Association (direction: Unspecified)

ASSOCIATIONS	
Source: Public (Class) ASTBuilder	Target: Public (Class) ASTree

OPERATIONS

🔷 CreateTree () : ASTree Public

Vytvorí prázdný ASTree. Ten poté muže být použit jako parametr UpdateTree().

Properties:
ea_guid = {EBB3B716-EE0C-4587-BF62-FD292CE8572E}

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

🔷 UpdateTree (command : ASTCommand , tree : ASTree) : Public

Pridá ASTCommand do fronty commandu co se aplikují na zadaný ASTree.

Properties:
ea_guid = {7C76E95A-EA72-45bb-A942-45807B0D23BF}

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

ASTCmdFactory

Class in package 'ast'

ASTCmdFactory
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

ASSOCIATIONS

✏️ . Association (direction: Unspecified)

Source: Public (Class) GraphicalInterface	Target: Public (Class) ASTCmdFactory

✏️ . Association (direction: Unspecified)

Source: Public (Class) ConsoleInterface	Target: Public (Class) ASTCmdFactory

OPERATIONS

🔷 CreateCmdCapture (parent : TagNode) : CmdDataCapture Public

Properties:
ea_guid = {623CFF27-128A-4efa-93F5-4386D9F43C3F}

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

🔷 CreateCmdRootTag (tagName : string) : CmdRootTag Public

Properties:
ea_guid = {D9C920A3-558A-4fe4-9506-7F5145A16BF7}

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

🔷 CreateCmdSubTag (parent : TagNode , tagName : string) : CmdSubTag Public

Properties:
ea_guid = {85750627-4D9E-4e89-A5FA-3ECF1C53BC79}

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

cmd

Package in package 'ast'

Balícek obsahující príkazy zpracovávané **ASTBuilder**em. Všechny implementují **IASTCommand** rozhraní.

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cmd
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

</div>

tree

Package in package 'ast'

<div align="right">

tree
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

</div>

CmdDataCapture

Class in package 'cmd'

Do tagu pridá informaci, že obsahuje data která mají být parsována, a jejich formát. (Prípadne príslušnost do urcité trídy kolekce)

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CmdDataCapture
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

</div>

OUTGOING STRUCTURAL RELATIONSHIPS
⬅ Realization from CmdDataCapture to IASTCommand
[Direction is 'Source -> Destination'.]

CmdRootTag

Class in package 'cmd'

Do AST pridá záznam o tom že <tag> je zajímávy a že v míste jeho výskytu má zarínat prohledávání.

Root tagu v ASTree muže být víc.

Typicky root tagem muže být treba <table>, pokud je cílem parsovat všechny! tabulky, nezávisle na tom jak hluboko v hierarchii jsou.

V obecném príklade muže být root tagem prímo <html> nebo <body> a všechna parsované data budou umístena pod serií **ASTCmdSubTag**.

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CmdRootTag
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

</div>

OUTGOING STRUCTURAL RELATIONSHIPS
⬅ Realization from CmdRootTag to IASTCommand
[Direction is 'Source -> Destination'.]

CmdSubTag

Class in package 'cmd'

Do AST pridá tag pod nejaký root tag/jiný subTag.

Tím lze specifikovat hierarchii tagu.

CmdSubTag
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

OUTGOING STRUCTURAL RELATIONSHIPS
⬅ Realization from CmdSubTag to IASTCommand
[Direction is 'Source -> Destination'.]

ASTree

Class in package 'tree'

(*AbstractSyntax*)Tree

Reprezentuje strukturu XML elementu která se má vyhledávat, a které její cásti obsahují data k uložení.

ASTree
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 26.03.2016

INCOMING STRUCTURAL RELATIONSHIPS
➡ Aggregation from Node to ASTree
[Direction is 'Source -> Destination'.]

CONNECTORS
↗ **Usage**   Source -> Destination
From: SourceGenerator : Class, Public
To: ASTree : Class, Public

ASSOCIATIONS
✏ Association (direction: Unspecified)
Source: Public (Class) ASTBuilder   Target: Public (Class) ASTree

OPERATIONS
◆ RegisterUpdateListener (listener : IASTUpdateListener) : Public
Properties: ea_guid = {1F4E8D42-536F-4113-BF89-32A1028000DA}
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

CaptureNode
Class in package 'tree'

Uzel oznacující místo, kde se nachází parsovaná data.

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CaptureNode
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016
Extends Node

</div>

OUTGOING STRUCTURAL RELATIONSHIPS
⬅ Generalization from CaptureNode to Node
[Direction is 'Source -> Destination'.]

ATTRIBUTES
◆ dataType : enum Protected
Budto enum, nebo lepší Java typ oznacující konkrétní datový typ.
[Is static False. Containment is Not Specified.]

Node
Class in package 'tree'

Uzel AST stromu. Všechny uzly krome root uzlu mají rodice. Rodicem musí být nejaký TagNode.

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Node
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

</div>

OUTGOING STRUCTURAL RELATIONSHIPS
⬅ Aggregation from Node to ASTree
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
➡ Generalization from TagNode to Node
[Direction is 'Source -> Destination'.]
➡ Generalization from CaptureNode to Node
[Direction is 'Source -> Destination'.]

ATTRIBUTES
◆ parent : TagNode Protected
[Is static False. Containment is Not Specified.]

TagNode
Class in package 'tree'

Uzel AST stromu reprezentující XHTML Tag.

TagNode
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016
Extends Node

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from TagNode to Node

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ tagName : string Protected

[Is static False. Containment is Not Specified.]

Overview diagram

Class diagram in package 'Class Diagram'

Overview
Version 1.0
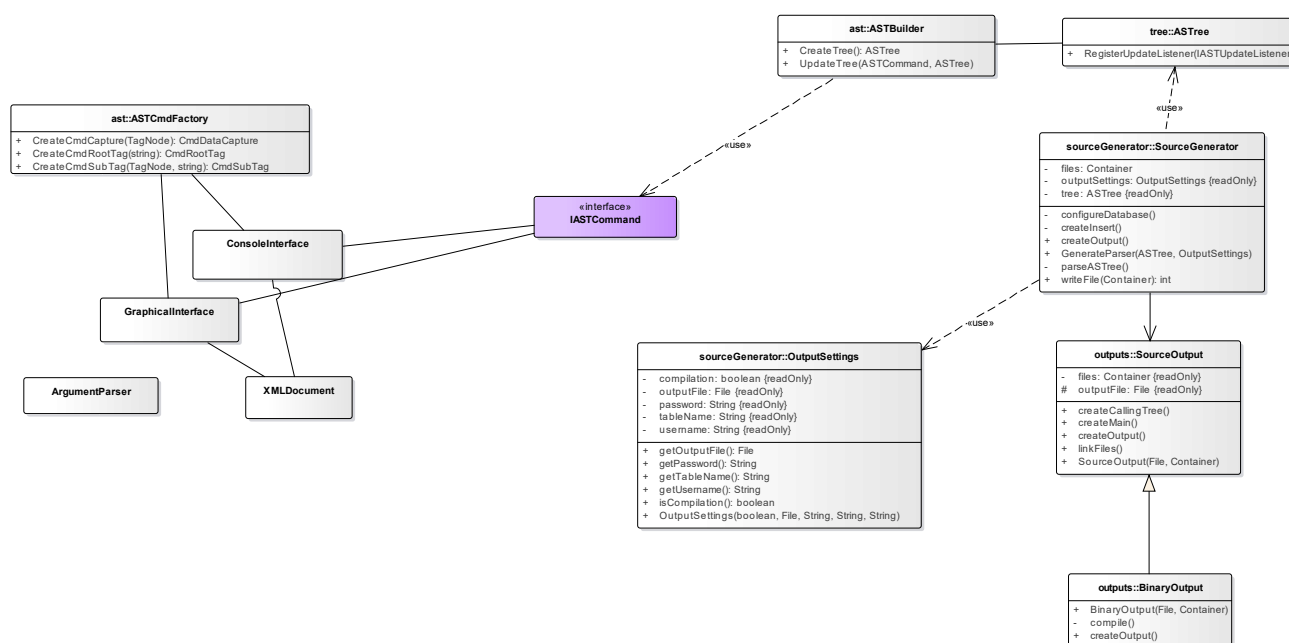Luis created on 16.03.2016. Last modified 15.04.2016

Figure 2: Overview

ASTBuilder

Class in package 'ast'

(*AbstractSyntaxTree*)Builder

Podle prijatých **ASTCommand** generuje **ASTree**.

CONNECTORS

Usage   Source -> Destination
From: ASTBuilder : Class, Public
To: IASTCommand : Interface, Public

ASSOCIATIONS

. Association (direction: Unspecified)

Source: Public (Class) ASTBuilder   Target: Public (Class) ASTree

OPERATIONS

CreateTree () : ASTree Public

Vytvorí prázdný ASTree. Ten poté muže být použit jako parametr UpdateTree().

Properties:
    ea_guid = {EBB3B716-EE0C-4587-BF62-FD292CE8572E}
                                        [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

UpdateTree (command : ASTCommand , tree : ASTree) : Public

Pridá ASTCommand do fronty commandu co se aplikují na zadaný ASTree.

Properties:
    ea_guid = {7C76E95A-EA72-45bb-A942-45807B0D23BF}
                                        [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ASTCmdFactory

Class in package 'ast'

ASSOCIATIONS

. Association (direction: Unspecified)

Source: Public (Class) GraphicalInterface   Target: Public (Class) ASTCmdFactory

. Association (direction: Unspecified)

Source: Public (Class) ConsoleInterface   Target: Public (Class) ASTCmdFactory

OPERATIONS

CreateCmdCapture (parent : TagNode) : CmdDataCapture Public

Properties:
    ea_guid = {623CFF27-128A-4efa-93F5-4386D9F43C3F}
                                        [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

◆ CreateCmdRootTag (tagName : string) : CmdRootTag Public

    Properties:
      ea_guid = {D9C920A3-558A-4fe4-9506-7F5145A16BF7}
                              [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ CreateCmdSubTag (parent : TagNode , tagName : string) : CmdSubTag Public

    Properties:
      ea_guid = {85750627-4D9E-4e89-A5FA-3ECF1C53BC79}
                              [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ASTree

Class in package 'tree'

(*AbstractSyntax*)Tree

Reprezentuje strukturu XML elementu která se má vyhledávat, a které její cásti obsahují data k uložení.

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ASTree
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 26.03.2016

</div>

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Aggregation from Node to ASTree

                                                   [Direction is 'Source -> Destination'.]

CONNECTORS

↗. **Usage**   Source -> Destination
From: SourceGenerator : Class, Public
To: ASTree : Class, Public

ASSOCIATIONS

✎. Association (direction: Unspecified)

Source: Public (Class) ASTBuilder   Target: Public (Class) ASTree

OPERATIONS

◆ RegisterUpdateListener (listener : IASTUpdateListener) : Public

    Properties:
      ea_guid = {1F4E8D42-536F-4113-BF89-32A1028000DA}
                              [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

BinaryOutput

Class in package 'outputs'

Zkompilovaný zdrojový kód z predchozího stupne.

BinaryOutput
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 01.04.2016
Extends SourceOutput

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from BinaryOutput to SourceOutput

[Direction is 'Source -> Destination'.]

OPERATIONS

◆ BinaryOutput (outputFile : File , files : Container) : Public

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

◆ compile () : Private

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

◆ createOutput () : Public

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

SourceOutput

Class in package 'outputs'

Zdrojový kod vygenerovaný v **SourceGenerator.**

SourceOutput
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 01.04.2016

INCOMING STRUCTURAL RELATIONSHIPS

➡ Generalization from BinaryOutput to SourceOutput

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ files : Container Private Const

[Is static False. Containment is Not Specified.]

◆ outputFile : File Protected Const

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

✎. Association (direction: Source -> Destination)

Source: Public (Class) SourceGenerator   Target: Public (Class) SourceOutput

OPERATIONS

◆ createCallingTree () : Public

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

OPERATIONS	
◆ createMain () : Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ createOutput () : Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ linkFiles () : Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ SourceOutput (outputFile : File , files : Container) : Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OutputSettings

Class in package 'sourceGenerator'

Nastavení požadovaného výstupu programu. (Binární / Textový).
V prípade požadavku na uložení do databáze muže obsahovat prístupové informace k databázi.

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OutputSettings
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 01.04.2016

</div>

CONNECTORS	
↗. **Usage** Source -> Destination From: SourceGenerator : Class, Public To: OutputSettings : Class, Public	

ATTRIBUTES	
◆ compilation : boolean Private Const	
	[Is static False. Containment is Not Specified.]
◆ outputFile : File Private Const	
	[Is static False. Containment is Not Specified.]
◆ password : String Private Const	
	[Is static False. Containment is Not Specified.]
◆ tableName : String Private Const	
	[Is static False. Containment is Not Specified.]
◆ username : String Private Const	
	[Is static False. Containment is Not Specified.]

OPERATIONS	
◆ getOutputFile () : File Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getPassword () : String Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS	
getTableName () : String Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
getUsername () : String Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
isCompilation () : boolean Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
OutputSettings (compilation : boolean , outputFile : File , username : String , password : String , tableName : String) : Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

SourceGenerator

Class in package 'sourceGenerator'

Na základe zadaného **ASTree** a **OutputSettings** generuje zdrojový kód parseru.

SourceGenerator
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 01.04.2016

CONNECTORS
Usage   Source -> Destination
From: SourceGenerator : Class, Public
To: OutputSettings : Class, Public
Usage   Source -> Destination
From: SourceGenerator : Class, Public
To: ASTree : Class, Public

ATTRIBUTES	
files : Container Private	
	[Is static False. Containment is Not Specified.]
outputSettings : OutputSettings Private Const	
	[Is static False. Containment is Not Specified.]
tree : ASTree Private Const	
	[Is static False. Containment is Not Specified.]

ASSOCIATIONS	
Association (direction: Source -> Destination)	
Source: Public (Class) SourceGenerator	Target: Public (Class) SourceOutput

OPERATIONS	
configureDatabase () : Private	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS	
◆ createInsert () : Private	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ createOutput () : Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ GenerateParser (tree : ASTree , settings : OutputSettings) : Public	
Properties: ea_guid = {C6AF1BC9-A6AF-4419-968D-5A0D31E89044}	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ parseASTree () : Private	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ writeFile (data : Container) : int Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ast

Package in package 'Class Diagram'

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ast
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

</div>

cmd

Package in package 'ast'

Balícek obsahující príkazdy zpracovávané **ASTBuilder**em. Všechny implementují **IASTCommand** rozhraní.

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cmd
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

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CmdDataCapture

Class in package 'cmd'

Do tagu pridá informaci, že obsahuje data která mají být parsována, a jejich formát. (Prípadne príslušnost do urcité trídy kolekce)

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CmdDataCapture
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

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OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Realization from CmdDataCapture to IASTCommand	
	[Direction is 'Source -> Destination'.]

CmdRootTag

Class in package 'cmd'

Do AST pridá záznam o tom že <tag> je zajímávy a že v míste jeho výskytu má zarínat prohledávání.

Root tagu v ASTree muže být víc.

Typicky root tagem muže být treba <table>, pokud je cílem parsovat všechny! tabulky, nezávisle na tom jak hluboko v hierarchii jsou.

V obecném príklade muže být root tagem prímo <html> nebo <body> a všechna parsované data budou umístena pod serií **ASTCmdSubTag**.

<div align="right">
CmdRootTag
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016
</div>

OUTGOING STRUCTURAL RELATIONSHIPS
⬅ Realization from CmdRootTag to IASTCommand
[Direction is 'Source -> Destination'.]

CmdSubTag

Class in package 'cmd'

Do AST pridá tag pod nejaký root tag/jiný subTag.

Tím lze specifikovat hierarchii tagu.

<div align="right">
CmdSubTag
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016
</div>

OUTGOING STRUCTURAL RELATIONSHIPS
⬅ Realization from CmdSubTag to IASTCommand
[Direction is 'Source -> Destination'.]

tree

Package in package 'ast'

<div align="right">

tree
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

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ASTree

Class in package 'tree'

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Reprezentuje strukturu XML elementu která se má vyhledávat, a které její cásti obsahují data k uložení.

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ASTree
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 26.03.2016

</div>

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Aggregation from Node to ASTree

[Direction is 'Source -> Destination'.]

CONNECTORS

↗ . **Usage**   Source -> Destination
From: SourceGenerator : Class, Public
To: ASTree : Class, Public

ASSOCIATIONS

✎ . Association (direction: Unspecified)

Source: Public (Class) ASTBuilder   Target: Public (Class) ASTree

OPERATIONS

◆ RegisterUpdateListener (listener : IASTUpdateListener) : Public

Properties:
  ea_guid = {1F4E8D42-536F-4113-BF89-32A1028000DA}
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

CaptureNode

Class in package 'tree'

Uzel oznacující místo, kde se nachází parsovaná data.

<div align="right">

CaptureNode
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016
Extends Node

</div>

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from CaptureNode to Node

[Direction is 'Source -> Destination'.]

ATTRIBUTES

🔶 dataType : enum Protected

Budto enum, nebo lepší Java typ oznacujíci konkrétní datový typ.

[Is static False. Containment is Not Specified.]

Node

Class in package 'tree'

Uzel AST stromu. Všechny uzly krome root uzlu mají rodice. Rodicem musí být nejaký TagNode.

Node
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Aggregation from Node to ASTree

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

➡ Generalization from TagNode to Node

[Direction is 'Source -> Destination'.]

➡ Generalization from CaptureNode to Node

[Direction is 'Source -> Destination'.]

ATTRIBUTES

🔶 parent : TagNode Protected

[Is static False. Containment is Not Specified.]

TagNode

Class in package 'tree'

Uzel AST stromu reprezentující XHTML Tag.

TagNode
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016
Extends Node

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from TagNode to Node

[Direction is 'Source -> Destination'.]

ATTRIBUTES

🔷 tagName : string Protected

[Is static False. Containment is Not Specified.]

ASTBuilder

Class in package 'ast'

(*AbstractSyntaxTree*)Builder

Podle prijatých **ASTCommand** generuje **ASTree**.

ASTBuilder
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 26.03.2016

CONNECTORS

↗. **Usage**   Source -> Destination
From: ASTBuilder : Class, Public
To: IASTCommand : Interface, Public

ASSOCIATIONS

✏. Association (direction: Unspecified)

Source: Public (Class) ASTBuilder   Target: Public (Class) ASTree

OPERATIONS

🔷 CreateTree () : ASTree Public

Vytvorí prázdný ASTree. Ten poté muže být použit jako parametr UpdateTree().

Properties:
   ea_guid = {EBB3B716-EE0C-4587-BF62-FD292CE8572E}
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

🔷 UpdateTree (command : ASTCommand , tree : ASTree) : Public

Pridá ASTCommand do fronty commandu co se aplikují na zadaný ASTree.

Properties:
   ea_guid = {7C76E95A-EA72-45bb-A942-45807B0D23BF}
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ASTCmdFactory

Class in package 'ast'

ASTCmdFactory

ASSOCIATIONS

✎ . Association (direction: Unspecified)

Source: Public (Class) GraphicalInterface   Target: Public (Class) ASTCmdFactory

✎ . Association (direction: Unspecified)

Source: Public (Class) ConsoleInterface   Target: Public (Class) ASTCmdFactory

OPERATIONS

◆ CreateCmdCapture (parent : TagNode) : CmdDataCapture Public

    Properties:
      ea_guid = {623CFF27-128A-4efa-93F5-4386D9F43C3F}
          [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ CreateCmdRootTag (tagName : string) : CmdRootTag Public

    Properties:
      ea_guid = {D9C920A3-558A-4fe4-9506-7F5145A16BF7}
          [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ CreateCmdSubTag (parent : TagNode , tagName : string) : CmdSubTag Public

    Properties:
      ea_guid = {85750627-4D9E-4e89-A5FA-3ECF1C53BC79}
          [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

outputs

Package in package 'Class Diagram'

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outputs
Version 1.0 Phase 1.0 Proposed
smidfil3 created on 01.04.2016. Last modified 01.04.2016

</div>

BinaryOutput

Class in package 'outputs'

Zkompilovaný zdrojový kód z predchozího stupne.

<div align="right">

BinaryOutput
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 01.04.2016
Extends SourceOutput

</div>

OUTGOING STRUCTURAL RELATIONSHIPS
⬅ Generalization from BinaryOutput to SourceOutput [Direction is 'Source -> Destination'.]

OPERATIONS
◆ BinaryOutput (outputFile : File , files : Container) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ compile () : Private [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ createOutput () : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

SourceOutput

Class in package 'outputs'

Zdrojový kod vygenerovaný v **SourceGenerator.**

<div align="right">

SourceOutput
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 01.04.2016

</div>

INCOMING STRUCTURAL RELATIONSHIPS
➡ Generalization from BinaryOutput to SourceOutput [Direction is 'Source -> Destination'.]

ATTRIBUTES
◆ files : Container Private Const [Is static False. Containment is Not Specified.]
◆ outputFile : File Protected Const

ATTRIBUTES

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

✎ . Association (direction: Source -> Destination)

Source: Public (Class) SourceGenerator   Target: Public (Class) SourceOutput

OPERATIONS

◆ createCallingTree () : Public

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

◆ createMain () : Public

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

◆ createOutput () : Public

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

◆ linkFiles () : Public

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

◆ SourceOutput (outputFile : File , files : Container) : Public

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

sourceGenerator

Package in package 'Class Diagram'

<div align="right">

sourceGenerator
Version 1.0 Phase 1.0 Proposed
smidfil3 created on 01.04.2016. Last modified 01.04.2016

</div>

OutputSettings

Class in package 'sourceGenerator'

Nastavení požadovaného výstupu programu. (Binární / Textový).
V prípade požadavku na uložení do databáze muže obsahovat prístupové informace k databázi.

<div align="right">

OutputSettings
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 01.04.2016

</div>

CONNECTORS
↗. **Usage**   Source -> Destination From: SourceGenerator : Class, Public To: OutputSettings : Class, Public

ATTRIBUTES
◆ compilation : boolean Private Const   [Is static False. Containment is Not Specified.]
◆ outputFile : File Private Const   [Is static False. Containment is Not Specified.]
◆ password : String Private Const   [Is static False. Containment is Not Specified.]
◆ tableName : String Private Const   [Is static False. Containment is Not Specified.]
◆ username : String Private Const   [Is static False. Containment is Not Specified.]

OPERATIONS
◆ getOutputFile () : File Public   [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getPassword () : String Public   [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getTableName () : String Public   [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ getUsername () : String Public   [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ isCompilation () : boolean Public

OPERATIONS
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ OutputSettings (compilation : boolean , outputFile : File , username : String , password : String , tableName : String) : Public   [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

SourceGenerator

Class in package 'sourceGenerator'

Na základe zadaného **ASTree** a **OutputSettings** generuje zdrojový kód parseru.

<div align="right">

SourceGenerator
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 01.04.2016

</div>

CONNECTORS
↗. **Usage**   Source -> Destination   From: SourceGenerator : Class, Public   To: OutputSettings : Class, Public
↗. **Usage**   Source -> Destination   From: SourceGenerator : Class, Public   To: ASTree : Class, Public

ATTRIBUTES
◆ files : Container Private   [Is static False. Containment is Not Specified.]
◆ outputSettings : OutputSettings Private Const   [Is static False. Containment is Not Specified.]
◆ tree : ASTree Private Const   [Is static False. Containment is Not Specified.]

ASSOCIATIONS
✎. Association (direction: Source -> Destination)
Source: Public (Class) SourceGenerator   Target: Public (Class) SourceOutput

OPERATIONS
◆ configureDatabase () : Private   [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ createInsert () : Private   [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ createOutput () : Public   [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ GenerateParser (tree : ASTree , settings : OutputSettings) : Public

OPERATIONS

Properties:
ea_guid = {C6AF1BC9-A6AF-4419-968D-5A0D31E89044}

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

◆ parseASTree () : Private

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

◆ writeFile (data : Container) : int Public

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

ArgumentParser

Class in package 'Class Diagram'

Zpracuje argumenty programu pri spuštení. Ty slouží napríklad k rozhodnutí jestli spustit grafické nebo konzolové rozhraní.

--nogui

Platné jen pro ConsoleInterface:
--export-database (Generovaný parser bude ukládat do databáze)
--export-collection (Generovaný parser bude exportovat jako Java kolekci, platný formát jen source)
--out-format-binary (Výstupem bude binární podoba parseru)
--out-format-source (Výstupem bude zdrojový kód parseru)

ArgumentParser
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 26.03.2016

ConsoleInterface

Class in package 'Class Diagram'

Konzolové rozhraní programu. Podle pokynu uživatele zadává príkazy pro **ASTBuilder**, který podle nich staví **ASTree**.

Vstupem bude XML s vyznacenými zajímavými cástmi, podle techto cástí bude generován ASTree.

ConsoleInterface
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 26.03.2016

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Realization from ConsoleInterface to IASTUpdateListener

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

✎ . Association (direction: Unspecified)

Source: Public (Class) ConsoleInterface   Target: Public (Interface) IASTCommand

✎ . Association (direction: Unspecified)

Source: Public (Class) ConsoleInterface   Target: Public (Class) ASTCmdFactory

ASSOCIATIONS

🖊 . Association (direction: Unspecified)

Source: Public (Class) XMLDocument   Target: Public (Class) ConsoleInterface

GraphicalInterface

Class in package 'Class Diagram'

Grafické rozhraní programu. Podle pokynu uživatele zadává príkazy pro **ASTBuilder**, ktorý podle nich staví **ASTree**.

GraphicalInterface
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 26.03.2016

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Realization from GraphicalInterface to IASTUpdateListener

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

🖊 . Association (direction: Unspecified)

Source: Public (Class) GraphicalInterface   Target: Public (Class) ASTCmdFactory

🖊 . Association (direction: Unspecified)

Source: Public (Class) GraphicalInterface   Target: Public (Interface) IASTCommand

🖊 . Association (direction: Unspecified)

Source: Public (Class) XMLDocument   Target: Public (Class) GraphicalInterface

XMLDocument

Class in package 'Class Diagram'

Syntaktický strom XML dokumentu, ktorý byl vstupem. (Muže obsahovat "zajímavé cásti" které lze zpracovat a vytvorit z nich sérii
IASTCommand -> ASTree.
Nebo to muže být obyčejný XTML dokument na kterém uživatel vybírá zajímavé prvky rucne, a dostává na nem preview.

XMLDocument
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

INCOMING STRUCTURAL RELATIONSHIPS

➡ Aggregation from XMLNode to XMLDocument

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

🖊 . Association (direction: Unspecified)

ASSOCIATIONS	
Source: Public (Class) XMLDocument	Target: Public (Class) ConsoleInterface

✎ . Association (direction: Unspecified)

Source: Public (Class) XMLDocument	Target: Public (Class) GraphicalInterface

XMLNode

Class in package 'Class Diagram'

XMLNode
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

OUTGOING STRUCTURAL RELATIONSHIPS
⬅ Aggregation from XMLNode to XMLDocument

[Direction is 'Source -> Destination'.]

IASTCommand

Interface in package 'Class Diagram'

IASTCommand
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 26.03.2016

INCOMING STRUCTURAL RELATIONSHIPS
➡ Realization from CmdDataCapture to IASTCommand

[Direction is 'Source -> Destination'.]

➡ Realization from CmdRootTag to IASTCommand

[Direction is 'Source -> Destination'.]

➡ Realization from CmdSubTag to IASTCommand

[Direction is 'Source -> Destination'.]

CONNECTORS

↗ . **Usage**   Source -> Destination
From: ASTBuilder : Class, Public
To: IASTCommand : Interface, Public

ASSOCIATIONS

✎ . Association (direction: Unspecified)

Source: Public (Class) ConsoleInterface	Target: Public (Interface) IASTCommand

✎ . Association (direction: Unspecified)

Source: Public (Class) GraphicalInterface	Target: Public (Interface) IASTCommand

IASTUpdateListener

Interface in package 'Class Diagram'

Rozhraní reprezentující trídu, která reaguje na update ASTree.

Reakcí muže být napríklad aktualizace preview v uživatelském rozhraní.

<div align="right">

IASTUpdateListener
Version 1.0 Phase 1.0 Proposed
Luis created on 26.03.2016. Last modified 26.03.2016

</div>

INCOMING STRUCTURAL RELATIONSHIPS
⇛ Realization from ConsoleInterface to IASTUpdateListener   [Direction is 'Source -> Destination'.]
⇛ Realization from GraphicalInterface to IASTUpdateListener   [Direction is 'Source -> Destination'.]

OPERATIONS
🔶 OnASTUpdate (caller : ASTree) : Public   Po registraci této interface k ASTree je tato fce volána z ASTree pokaždé když dojde k jeho zmene.   Properties: ea_guid = {08F2D33E-4044-4a50-B185-5C4F810AE0F1}   [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

IProgramInterface

Interface in package 'Class Diagram'

<div align="right">

IProgramInterface
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 16.03.2016

</div>

GeneratorParams

DataType in package 'Class Diagram'

<div align="right">

GeneratorParams
Version 1.0 Phase 1.0 Proposed
Luis created on 16.03.2016. Last modified 16.03.2016

</div>

Sequence diagram

Package in package 'Parser'

<div align="right">

Sequence diagram
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 15.04.2016. Last modified 15.04.2016

</div>

Sequence diagram diagram

Interaction diagram in package 'Sequence diagram'

Sequence diagram
Version 1.0
SiRonnie created on 15.04.2016. Last modified 20.04.2016
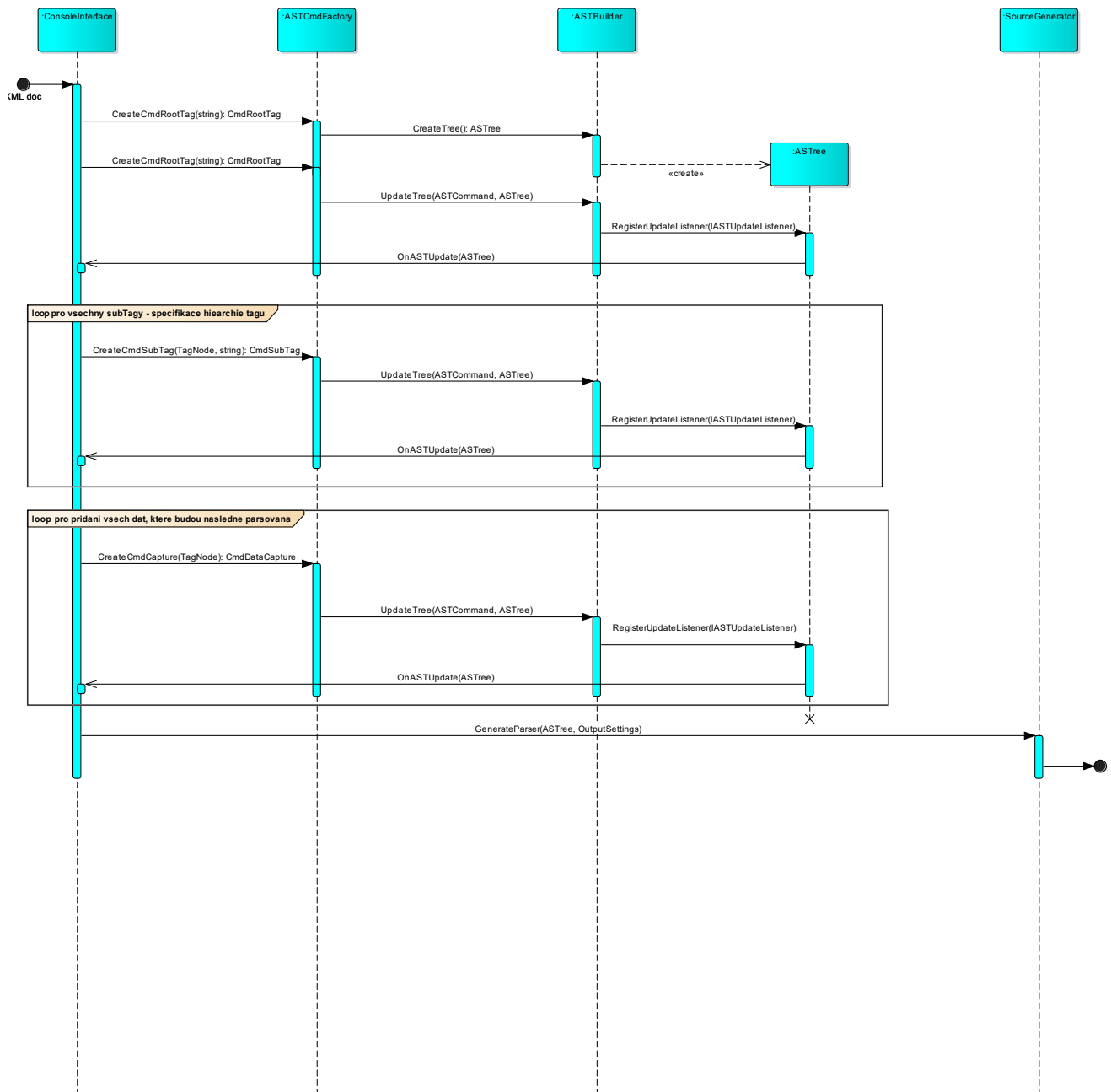
Figure 3: Sequence diagram

INTERACTION MESSAGES

✉ **1.0 ''** from 'XML doc' sent to ':ConsoleInterface'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.1 'CreateCmdRootTag(string)'** from ':ConsoleInterface' sent to ':ASTCmdFactory'.

Synchronous Call. Returns CmdRootTag.

[Return is False. Iteration is False. New group is False.]

✉ **1.2 'CreateTree()'** from ':ASTCmdFactory' sent to ':ASTBuilder'.

Synchronous Call. Returns ASTree.

[Return is False. Iteration is False. New group is False.]

✉ **1.3 ''** from ':ASTBuilder' sent to ':ASTree'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False. Life cycle is New.]

✉ **1.4 'CreateCmdRootTag(string)'** from ':ConsoleInterface' sent to ':ASTCmdFactory'.

Synchronous Call. Returns CmdRootTag.

[Return is False. Iteration is False. New group is False.]

✉ **1.5 'UpdateTree(ASTCommand, ASTree)'** from ':ASTCmdFactory' sent to ':ASTBuilder'.

Synchronous Call.

[Return is False. Iteration is False. New group is False.]

✉ **1.6 'RegisterUpdateListener(IASTUpdateListener)'** from ':ASTBuilder' sent to ':ASTree'.

Synchronous Call.

[Return is False. Iteration is False. New group is False.]

✉ **1.7 'OnASTUpdate(ASTree)'** from ':ASTree' sent to ':ConsoleInterface'.

Asynchronous Call.

[Return is False. Iteration is False. New group is False.]

✉ **1.8 'CreateCmdSubTag(TagNode, string)'** from ':ConsoleInterface' sent to ':ASTCmdFactory'.

Synchronous Call. Returns CmdSubTag.

[Return is False. Iteration is False. New group is False.]

✉ **1.9 'UpdateTree(ASTCommand, ASTree)'** from ':ASTCmdFactory' sent to ':ASTBuilder'.

Synchronous Call.

[Return is False. Iteration is False. New group is False.]

✉ **1.10 'RegisterUpdateListener(IASTUpdateListener)'** from ':ASTBuilder' sent to ':ASTree'.

Synchronous Call.

[Return is False. Iteration is False. New group is False.]

✉ **1.11 'OnASTUpdate(ASTree)'** from ':ASTree' sent to ':ConsoleInterface'.

Asynchronous Call.

[Return is False. Iteration is False. New group is False.]

✉ **1.12 'CreateCmdCapture(TagNode)'** from ':ConsoleInterface' sent to ':ASTCmdFactory'.

Synchronous Call. Returns CmdDataCapture.

[Return is False. Iteration is False. New group is False.]

✉ **1.13 'UpdateTree(ASTCommand, ASTree)'** from ':ASTCmdFactory' sent to ':ASTBuilder'.

Synchronous Call.

[Return is False. Iteration is False. New group is False.]

✉ **1.14 'RegisterUpdateListener(IASTUpdateListener)'** from ':ASTBuilder' sent to ':ASTree'.

Synchronous Call.

[Return is False. Iteration is False. New group is False.]

✉ **1.15 'OnASTUpdate(ASTree)'** from ':ASTree' sent to ':ConsoleInterface'.

Asynchronous Call.

[Return is False. Iteration is False. New group is False.]

✉ **1.16 'GenerateParser(ASTree, OutputSettings)'** from ':ConsoleInterface' sent to ':SourceGenerator'.

Synchronous Call.

[Return is False. Iteration is False. New group is False.]

✉ **1.17 ''** from ':SourceGenerator' sent to ''.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

\<anonymous\>

Object in package 'Sequence diagram'

<anonymous>
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 15.04.2016. Last modified 15.04.2016

\<anonymous\>

Object in package 'Sequence diagram'

<anonymous>
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 15.04.2016. Last modified 15.04.2016

\<anonymous\>

Object in package 'Sequence diagram'

<anonymous>
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 15.04.2016. Last modified 15.04.2016

\<anonymous\>

Object in package 'Sequence diagram'

<anonymous>
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 15.04.2016. Last modified 15.04.2016

\<anonymous\>

Object in package 'Sequence diagram'

<anonymous>
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 15.04.2016. Last modified 15.04.2016

\<anonymous\>

Object in package 'Sequence diagram'

<anonymous>
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 15.04.2016. Last modified 15.04.2016

\<anonymous\>

Object in package 'Sequence diagram'

<anonymous>
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 15.04.2016. Last modified 15.04.2016

\<anonymous\>

Object in package 'Sequence diagram'

<anonymous>
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 16.04.2016. Last modified 16.04.2016

\<anonymous\>

Object in package 'Sequence diagram'

<anonymous>
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 15.04.2016. Last modified 15.04.2016

\<anonymous\>

Object in package 'Sequence diagram'

<anonymous>
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 15.04.2016. Last modified 15.04.2016

<anonymous>

MessageEnd in package 'Sequence diagram'

<anonymous>
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 16.04.2016. Last modified 16.04.2016

INCOMING BEHAVIORAL RELATIONSHIPS
⇛ Sequence from <anonymous> to <anonymous>

Object1

Sequence «entity» in package 'Sequence diagram'

Object1
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 16.04.2016. Last modified 16.04.2016

XML doc

MessageEnd in package 'Sequence diagram'

XML doc
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 16.04.2016. Last modified 16.04.2016

OUTGOING BEHAVIORAL RELATIONSHIPS
⇚ Sequence from XML doc to <anonymous>

pro pridani vsech dat, ktere budou nasledne parsovana

InteractionFragment in package 'Sequence diagram'

pro pridani vsech dat, ktere budou nasledne parsovana
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 20.04.2016. Last modified 20.04.2016

pro vsechny subTagy - specifikace hiearchie tagu

InteractionFragment in package 'Sequence diagram'

Pro vsechny zajimave tagy.

pro vsechny subTagy - specifikace hiearchie tagu
Version 1.0 Phase 1.0 Proposed
SiRonnie created on 16.04.2016. Last modified 20.04.2016