

Javadoc tool API

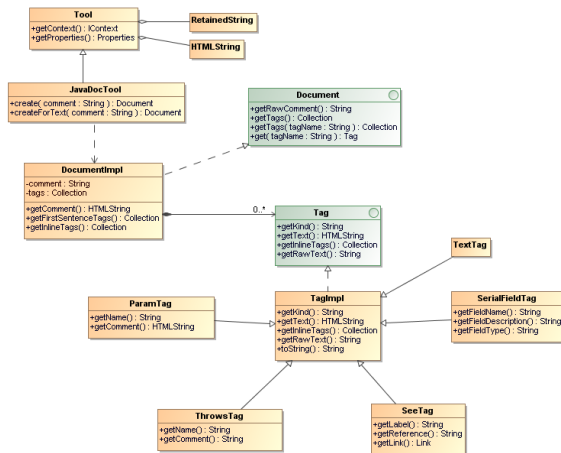


Figure 1: Javadoc Tool API.

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JavaDocTool

JavaDoc Tool is a custom tool class used for creating a Document node.

- `create()` - Return a new instance of a Document node. Each JavaDoc comment must start with `/**` and ended with `*/`.
- `createForText()` - Return a new instance of a Document node. This method allows in-complete JavaDoc (comments without `/**` and `*/`) to be loaded with JavaDocTool.

Document

Document is an interface representing a Comment Document.

- `getRawComment()` - Return the full unprocessed text of the comment.
- `getTags()` - Return all tags in this document item.
- `getTags(tagName : String)` - Return a tag of the specified kind of this document item.
- `get(tagName : String)` - Return a tag of the specified kind of this document item. If any tags with the same kind are found, the first tag of that kind will be returned.

DocumentImpl

DocumentImpl is a default JavaDoc document implementation.

- `getComment()` - Return formatted text for this document.
- `getInlineTags()` - Return comment as a collection of tags.
- `getFirstSentenceTags()` - Return the first sentence of the comment as a collection of tags.

Tag

Tag is an interface representing a simple documentation tag, such as `@since`, `@author`, and `@version`

- `getKind()` - Return the kind of this tag.
- `getText()` - Return the text of this tag.
- `getInlineTags()` - Return a collection of tags for a documentation comment with embedded `{@link}` tags.

TagImpl

TagImpl is a default tag implementation.

- `getRawText()` - Return the full unprocessed text of this tag.
- `toString()` - Return the text of this tag. Usually calls `getText()`.

ParamTag

ParamTag represents a `@param` documentation tag.

- `getName()` - Return the name of the parameter associated with this tag.
- `getComment()` - Return the parameter's comment.

ThrowsTag

ThrowsTag represents a @throws or @exception documentation tag.

- getName() - Return the name of the exception associated with this tag.
- getComment() - Return the exception's comment.

SeeTag

SeeTag represents a user-defined cross-reference to related documentation. The reference can be either inline with the comment using {@link} or a separate block comment using @see.

- getLabel() - Return the label of the @see tag.
- getReference() - Return the MODEL or URL of the @see reference.
- getLink() - Return the Link object representing this tag.

SerialFieldTag

SerialFieldTag represents a @serialField tag.

- getFieldName() - return the serial field name.
- getFieldDescription() - return the field comment.
- getFieldType() - return the field type string.

For examples:

- Import the Javadoc tool and create an instance of Javadoc document:

```
#import ("javadoc",  
"com.nomagic.reportwizard.tools.doc.JavadocTool")  
#set ($doc = $javadoc.create($comment))
```

- Print a Javadoc comment:

```
$doc.comment
```

- Print the first encountered author:

```
$doc.author
```

- Print all authors:

```
#foreach ($author in $doc.getTags("author"))  
$author.text  
#end
```

- Print the first sentence:

```
#foreach ($tag in $doc.firstSentenceTags)  
$tag.text  
#end
```

- Print the inline tags:

```
#foreach ($tag in $doc.inlineTags)
$tag.kind
$tag.text
#end
```

- Print a raw comment (plain text without a document parser or HTML renderer):

```
$doc.rawComment
```

- Print all block tags:

```
#foreach ($tag in $doc.tags)
$tag.kind : $tag.text
#end
```

- Print all param tags:

```
#foreach ($tag in $doc.getTags("param"))
$tag.name - $tag.comment
#end
```

- Print all throws tags:

```
#foreach ($tag in $doc.getTags("throws"))
$tag.name - $tag.comment
#end
```

- Print all see tags:

```
#foreach ($tag in $doc.getTags("see"))
$tag.label - $tag.reference
#end
```

Reference Documents

- Javadoc specification
<http://java.sun.com/j2se/1.5.0/docs/tooldocs/windows/javadoc.html#javadoctags>
- Writing Javadoc
<http://java.sun.com/j2se/javadoc/writingdoccomments/index.html>
- Javadoc Tool API
<install.dir>/plugins/com.nomagic.magicdraw.reportwizard/api/javadoc.zip