

USING `gate` FROM A COMMAND LINE

Last updated: 28-Sep-2023

Each entry on this page includes a code block showing an example command line. This may be copied into an editor of choice (such as notepad++) and changed as needed.

Each of these examples uses the "wget" command for simplicity. Other choices like "curl" or even "postman" also work. The URL of each "wget" command must be enclosed in double-quote (") characters because many of the URLs include characters that are otherwise interpreted as special characters by the "bash" command-line shell.

The modified result can be pasted into a standard SSH client like putty in order to get the result of running the (modified) command.

Each successful (200) response is a JSON-encoded Javascript literal object containing the requested information.

NOTE: A prefix of @ in this document means that the identifier refers to a query-string parameter in the URL of an endpoint. For example, "@prName" refers to the left-hand side of a query string pair like "prName=anndeletePR", where the right-hand side is the value of the query-string parameter.

Each query-string of each endpoint is sequence of query-string pairs separated by an ampersand ("&") character.

The value of each query-string pair must be URL-encoded. One convenient tool for obtaining a URL-encoded string is ([URLEncoder](#)).

- Setup
 - Load ANNIE Plugin

```
wget "https://hoyo.zeetix.com:5101/gate/v0/plugin/mavenPlugin?group=uk.ac.gate.plugins&artifact=annie&version=9.1"
```

- Operations
 - GateCorpus

- withName

Answers the instance of `GateCorpus` with @corpusName, creating it only if needed.

This example uses a corpusName of "testCorpus1".

Answers a 400 "Bad Request" if a corpusName is not provided

```
wget "https://hoyo.zeetix.com:5101/gate/v0/corpus/withName?corpusName=testCorpus1"
```

- names

Answers a list containing the names of the currently loaded instances of **GateCorpus**

```
wget "https://hoyo.zeetix.com:5101/gate/v0/corpus/names"
```

- named

Answers the currently-loaded instance of **GateCorpus** with @corpusName.

Answers a 400 "Bad Request" if a corpusName is not provided

Answers a **404** "Not Found" if the given corpusName is not currently loaded.

This example uses the corpusName "testCorpus1".

```
wget "https://hoyo.zeetix.com:5101/gate/v0/corpus/named?corpusName=testCorpus1"
```

- addDocument

Adds a loaded instance of **GateDocument** with @documentName into the loaded instance of **GateCorpus** with @corpusName.

The documentName is the URL or path used to create the instance of **GateDocument**.

NOTE: The value of documentName must be URL-encoded. The tool used to create these examples is [URLEncoder](#).

Answers a 400 "Bad Request" if either a corpusName or a documentName is not provided.

Answers a **404** "Not Found" if either the given corpusName or the given documentName is not currently loaded.

This example uses the following corpusName and documentName:

corpusName: "testCorpus1"

documentName:

"%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%2FBackendServices%2FGateService%2FinputData%2FgatePipelineTest_sample.html"

```
wget
"https://hoyo.zeetix.com:5101/gate/v0/corpus/addDocument?
corpusName=testCorpus1&documentName=%2Fhome%2Ftms%2Fbackend%
2Ftests%2Ftest_classes%2FBackendServices%2FGateService%2Finput
Data%2FgatePipelineTest_sample.html"
```

- cleanup

Removes any references to @corpusName from both **gate** and **gated**.

NOTE: This endpoint is NOT idempotent -- it is an error to call this endpoint more than once with the same corpusName without an intervening call to the **withName** endpoint.

Answers a 400 "Bad Request" if a corpusName is not provided

Answers a 404 "Not Found" if the given corpusName is not currently loaded.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/corpus/cleanup?
corpusName=testCorpus1"
```

- GateDocument

- withURL

Answers an instance of **GateDocument** with @url, creating it only if needed.

The provided url is used as the **documentName** in future endpoint calls that reference the result.

This example uses a url of "https%3A%2F%2Fgate.ac.uk". This the URL-encoded form of "https://gate.ac.uk"

Answers a 400 "Bad Request" if a url is not provided

```
wget "https://hoyo.zeetix.com:5101/gate/v0/document/withURL?
url=https%3A%2F%2Fgate.ac.uk"
```

- withPath

Answers an instance of **GateDocument** with @path, creating it only if needed.

The provided path is used as the documentName in future endpoint calls that reference the result.

This example uses a path of "%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%2FBackendServices%2FGateService%2FinputData%2FgatePipelineTest_sample.html". This the URL-encoded form of

"/home/tms/backend/gate/test_classes/GateClasses/GateObject/GateComponent/inputData/gateDocumentTest_sample.html"

```
wget
"https://hoyo.zeetix.com:5101/gate/v0/document/withPath?
path=%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%2FBacken
dServices%2FGateService%2FinputData%2FgatePipelineTest_sampl
e.html"
```

- names

Answers a list containing the name of each currently loaded instance of `GateDocument`

```
wget "https://hoyo.zeetix.com:5101/gate/v0/document/names"
```

- named

Answers the currently-loaded instance of `GateDocument` with `@documentName`.

Answers a 400 "Bad Request" if a `documentName` is not provided

Answers a 404 "Not Found" if the given `documentName` is not currently loaded.

This example uses the `documentName`

`"%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%2FBackendServices%2FGateService%2FinputData%2FgatePipelineTest_sample.html"`.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/document/named?
documentName=%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%
2FBackendServices%2FGateService%2FinputData%2FgatePipelineTe
st_sample.html"
```

- content

Answers the full (text) content of the currently-loaded instance of `GateDocument` with `@documentName`.

Answers a 400 "Bad Request" if a `documentName` is not provided

Answers a 404 "Not Found" if the given `documentName` is not currently loaded.

This example uses the `documentName`

`"%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%2FBackendServices%2FGateService%2FinputData%2FgatePipelineTest_sample.html"`.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/document/content?
documentName=%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%
2FBackendServices%2FGateService%2FinputData%2FgatePipelineTe
st_sample.html"
```

- **annotationSetNames**

Answers the `annotationSetNames` of the currently-loaded instance of `GateDocument` with `@documentName`.

Answers a 400 "Bad Request" if a `documentName` is not provided

Answers a 404 "Not Found" if the given `documentName` is not currently loaded.

This example uses the `documentName`

"%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%2FBackendServices%2FGateService%2FinputData%2FgatePipelineTest_sample.html".

```
wget
"https://hoyo.zeetix.com:5101/gate/v0/document/annotationSet
Names?
documentName=%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%
2FBackendServices%2FGateService%2FinputData%2FgatePipelineTe
st_sample.html"
```

- **annotations (default)**

Answers an instance of `AnnotationSet` containing the default annotations of the currently-loaded instance of `GateDocument` with `@documentName`.

An instance of `AnnotationSet` has a possibly empty list of unique instances of `Annotation`.

Each instance of `Annotation` has a `type` (such as "Token" or "SpaceToken"), a `startNode` and `endNode` (each an instance of `Node` with a unique ID and offset within the document content), and a `features` object.

Each `features` object has a "kind" whose value describes the annotation (such as "control" or "word"), a "string" that contains the document fragment that the annotation pertains to and a length of that fragment.

Answers a 400 "Bad Request" if a `documentName` is not provided

Answers a 404 "Not Found" if the given `documentName` is not currently loaded.

This example uses the `documentName`

"%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%2FBackendServices%2FGateService%2FinputData%2FgatePipelineTest_sample.html".

```
wget
"https://hoyo.zeetix.com:5101/gate/v0/document/annotations?
documentName=%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%
2FBackendServices%2FGateService%2FinputData%2FgatePipelineTe
st_sample.html"
```

- annotations (specified)

Answers an instance of `AnnotationSet` containing the annotations of the `@annotationSet` for the currently-loaded instance of `GateDocument` with `@documentName`.

An instance of `AnnotationSet` has a possibly empty list of unique instances of `Annotation`.

Each instance of `Annotation` has a `type` (such as "Token" or "SpaceToken"), a `startNode` and `endNode` (each an instance of `Node` with a unique ID and offset within the document content), and a `features` object.

Each `features` object has a "kind" whose value describes the annotation (such as "control" or "word"), a "string" that contains the document fragment that the annotation pertains to and a length of that fragment.

Answers a 400 "Bad Request" if a `documentName` is not provided

Answers a 404 "Not Found" if the given `documentName` is not currently loaded.

This example uses a `documentName` of:

```
"%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%2FBackendServices%2FGateSer
vice%2FinputData%2FgatePipelineTest_sample.html".
```

This example uses an `annotationSet` of: "Original%20markups", the URL-encoded form of "Original markups".

```
wget
"https://hoyo.zeetix.com:5101/gate/v0/document/annotations?
documentName=%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%
2FBackendServices%2FGateService%2FinputData%2FgatePipelineTe
st_sample.html&annotationSetName=Original%20markups"
```

- cleanup

Removes any references to `@documentName` from both `gate` and `gated`.

NOTE: This endpoint is NOT idempotent -- it is an error to call this endpoint more than once with the same `documentName` without an intervening call to the `withURL` or `withPath` endpoint.

Answers a 400 "Bad Request" if a `documentName` is not provided

Answers a 404 "Not Found" if the given documentName is not currently loaded.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/document/cleanup?
documentName=%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%
2FBackendServices%2FGateService%2FinputData%2FgatePipelineTe
st_sample.html"
```

- GatePipeline

- corpusGet

Answers the instance of **GateCorpus** referenced by @pipelineName. Fails if no corpus has been set in the specified pipeline.

This example uses a pipelineName of "pipelineForTesting".

Answers a 400 "Bad Request" if a pipelineName is not provided

Answers a 404 "Not Found" if no pipeline named pipelineName exists.

Answers a 404 "Not Found" if the pipeline has no corpus

```
wget
"https://hoyo.zeetix.com:5101/gate/v0/pipeline/corpusGet?
pipelineName=pipelineForTesting"
```

- corpusName

Answers the name of the **GateCorpus** referenced by @pipelineName. Fails if no corpus has been set in the specified pipeline.

This example uses a pipelineName of "pipelineForTesting".

Answers a 400 "Bad Request" if a pipelineName is not provided

Answers a 404 "Not Found" if no pipeline named pipelineName exists.

Answers a 404 "Not Found" if the pipeline has no corpus

```
wget
"https://hoyo.zeetix.com:5101/gate/v0/pipeline/corpusName?
pipelineName=pipelineForTesting"
```

- corpusSet

Makes the loaded corpus named @corpusName be the corpus of the **GatePipeline** referenced by @pipelineName.

This example uses a pipelineName of "pipelineForTesting" and a corpusName of "testCorpus1".

Answers a 400 "Bad Request" if a pipelineName is not provided

Answers a 400 "Bad Request" if a corpusName is not provided

Answers a 404 "Not Found" if no pipeline named pipelineName exists.

Answers a 404 "Not Found" if no corpus named corpusName exists.

```
wget
"https://hoyo.zeetix.com:5101/gate/v0/pipeline/corpusSet?
pipelineName=pipelineForTesting&corpusName=testCorpus1"
```

- load

Makes the existing pipeline named @pipelineName match the stored pipeline with full filesystem path of the provided path.

This example uses a pipelineName of "pipelineForTesting".

This example uses a path of

"%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%2FBackendServices%2FGateService%2FinputData%2FgatePipelineForTesting.xgapp". This is the URL-encoded form of "/home/tms/backend/gate/test_classes/GateClasses/GateObject/GateComponent/inputData/gatePipelineForTesting.xgapp"

Answers a 400 "Bad Request" if a pipelineName is not provided.

Answers a 400 "Bad Request" if a path is not provided.

Answers a 404 "Not Found" if no pipeline named pipelineName exists.

Answers a 404 "Not Found" if the file at the specified path cannot be loaded.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pipeline/load?
pipelineName=pipelineForTesting&path=%2Fhome%2Ftms%2Fbackend
%2Ftests%2Ftest_classes%2FBackendServices%2FGateService%2Fin
putData%2FgatePipelineForTesting.xgapp"
```

- names

Answers a list containing the name of each currently loaded instance of `GatePipeline`

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pipeline/names"
```


- named

Answers the currently-loaded instance of `GatePipeline` with the given pipelineName.

This example uses a pipelineName of "pipelineForTesting".

Answers a 400 "Bad Request" if a pipelineName is not provided

Answers a 404 "Not Found" if the given pipelineName is not currently loaded.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pipeline/named?
pipelineName=pipelineForTesting"
```

- parameterValueGet

Answers the current value of the parameter named @parameterName of the processing resource named @prName already added to the instance of `GatePipeline` named @pipelineName.

This example uses a pipelineName of "pipelineForTesting", a prName of "anndeletePR", and a parameterName of "setsToKeep".

Answers a 400 "Bad Request" if any of pipelineName, prName, or parameterName is not provided.

Answers a 404 "Not Found" if no pipeline named pipelineName exists, no `ProcessingResource` named prName is contained by the pipeline, or if the specified `ProcessingResource` has no parameter named paramaterName.

```
wget
"https://hoyo.zeetix.com:5101/gate/v0/pipeline/parameterValu
eGet?
pipelineName=pipelineForTesting&prName=anndeletePR&parameter
Name=setsToKeep"
```

- parameterValueSet

Sets the current value of the parameter named @parameterName of the processing resource named @prName already added to the instance of `GatePipeline` with @pipelineName. The value of the designated parameter is changed to @parameterValue with type @parameterType.

This example uses a pipelineName of "pipelineForTesting", a prName of "anndeletePR", a parameterName of "setsToKeep", a parameterValue of "Key, Target" ("Key%2C%20Target"), and a parameterType of "List" ("List%3CString%3E").

NOTE: For list types (such as "List"), the provided parameter value should NOT include the list delimiters ("[" , "]").

Answers a 400 "Bad Request" if any of pipelineName, prName, parameterName, parameterValue, or parameterType is not provided.

The parameterValue and parameterType arguments are URL-encoded strings that correspond to **Key**, **Target** and **List<String>**.

Answers a 404 "Not Found" if

- no pipeline named pipelineName exists, or
- no **ProcessingResource** named prName is contained by the pipeline, or
- the specified **ProcessingResource** has no parameter named parameterName, or
- the provided parameterValue has the wrong type, or
- the provided parameterType is invalid for the specified parameterName.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pipeline/parameterValueSet?pipelineName=pipelineForTesting&prName=anndeletePR&parameterName=setsToKeep&parameterValue=Key%2C%20Target&parameterType=List%3CString%3E"
```

- prAdd (anndeletePR)

Adds the already loaded instance of **ProcessingResource** named @prName to the **GatePipeline** referenced by @pipelineName. Fails if @prName does not reference an already-loaded instance of **ProcessingResource**.

This example uses a pipelineName of "pipelineForTesting" and a prName of "anndeletePR".

Answers a 400 "Bad Request" if a pipelineName is not provided

Answers a 400 "Bad Request" if a prName is not provided

Answers a 404 "Not Found" if no pipeline named pipelineName exists.

Answers a 404 "Not Found" if no ProcessingResource named prName exists.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pipeline/prAdd?pipelineName=pipelineForTesting&prName=anndeletePR"
```

- prAdd (defToken)

This example uses a pipelineName of "pipelineForTesting" and a prName of "defToken". It is provided as a convenience so that the example pipeline produces non-trivial annotations.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pipeline/prAdd?
pipelineName=pipelineForTesting&prName=defToken"
```

- prNames

Answers a list containing the name of each currently loaded **ProcessingResource** of the instance of **GatePipeline** specified by @pipelineName.

Answers a 400 "Bad Request" if a @pipelineName is not provided

Answers a 404 "Not Found" if no pipeline named @pipelineName exists.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pipeline/prNames?
pipelineName=pipelineForTesting"
```

- run

Runs the GatePipeline specified by @pipelineName. Each instance of **ProcessingResource** added to the pipeline will be applied to each instance of **GateDocument** contained by the corpus of the pipeline. Fails if the specified pipeline is not runnable.

Answers a 400 "Bad Request" if a @pipelineName is not provided

Answers a 404 "Not Found" if no pipeline named @pipelineName exists.

Answers a 404 "Not Found" if the pipeline named @pipelineName is not runnable.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pipeline/run?
pipelineName=pipelineForTesting"
```

- store

Stores the pipeline named @pipelineName to full filesystem path of the provided @path, replacing any existing file at that path. Fails if the designated path is not writable.

This example uses a pipelineName of "pipelineForTesting".

This example uses a path of "%2Fhome%2Ftms%2Fbackend%2Ftests%2Ftest_classes%2FBackendServices%2FGateService%2FoutputData%2FgatePipelineForTesting.xgapp". This the URL-encoded form of "/home/tms/backend/gate/test_classes/GateClasses/GateObject/GateComponent/outputData/gatePipelineForTesting.xgapp"

Answers a 400 "Bad Request" if @pipelineName is not provided

Answers a 400 "Bad Request" if @path is not provided

Answers a 404 "Not Found" if no pipeline named @pipelineName exists.

Answers a 404 "Not Found" if the file at @path cannot be stored.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pipeline/store?
pipelineName=pipelineForTesting&path=%2Fhome%2Ftms%2Fbackend
%2Ftests%2Ftest_classes%2FBackendServices%2FGateService%2Fou
tputData%2FgatePipelineForTesting.xgapp"
```

- withName

Answers an instance of `GatePipeline` with @pipelineName, creating it only if needed.

This example uses a pipelineName of "pipelineForTesting".

Answers a 400 "Bad Request" if a pipelineName is not provided

```
wget
"https://hoyo.zeetix.com:5101/gate/v0/pipeline/withName?
pipelineName=pipelineForTesting"
```

- ProcessingResource (PR)

- withPR (anndeletePR)

Answers an instance of `ProcessingResource` with @prName and @resourcePath, creating it only if needed. The value of @path is a dot-separated Java class name that specifies the a CREOLE resource within the loaded plugin that contains it. Fails if the containing plugin is not loaded.

The value of @prName is arbitrary and is used to identify the loaded ProcessingResource for the remainder of the session.

This example uses a prName of "pipelineForTesting" and a resourcePath of "gate.creole.annotdelete.AnnotationDeletePR"

Answers a 400 "Bad Request" if either @pipelineName or @resourcePath is not provided.

Answers a 404 "Not Found" if no ProcessingResource can be loaded from @resourcePath.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pr/withPR?
prName=anndeletePR&resourcePath=gate.creole.annotdelete.Anno
tationDeletePR"
```

- withPR (defToken)

Answers an instance of the "DefaultTokeniser". This is provided for convenience, because it is used by the example pipeline.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pr/withPR?  
prName=defToken&gate.creole.tokeniser.DefaultTokeniser"
```

- reinitPR

Reinitializes the loaded instance of `ProcessingResource` with `@prName` and `@resourcePath`. Restores each runtime parameter of `@prName` to its default value.

This operation allows the parameters of the loaded instance of `ProcessingResource` to be reset while preserving each internal reference within any other CREOLE resource that references the designated instance of `ProcessingResource`.

The value of `@path` is a dot-separated Java class name that specifies a CREOLE resource within the loaded plugin that provides it. Fails if the containing plugin is not loaded.

The value of `@prName` is arbitrary and is used to identify the loaded `ProcessingResource` for the remainder of the session.

This example uses a `prName` of "anndeletePR" and a `resourcePath` of "gate.creole.annotdelete.AnnotationDeletePR"

Answers a 400 "Bad Request" if either `@pipelineName` or `@resourcePath` is not provided.

Answers a 404 "Not Found" if no `ProcessingResource` can be loaded from `@resourcePath`.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/pr/reinitPR?  
prName=anndeletePR&resourcePath=gate.creole.annotdelete.Anno  
tationDeletePR"
```

- Cleanup

- Cleanup `gated`

Reinitializes the `GateDaemon` used by `gated`. Cleans up and discards each GATE-core resource currently referenced by `gated`. This is an idempotent operation and therefore can be safely called more than once.

This endpoint has no operation or arguments.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/cleanup"
```

- Reset Shared state

Reinitializes the shared state of `gate` service. Cleans up and discards each Javascript resource currently referenced by `gate`. This is an idempotent operation and therefore can be safely called more than once.

This endpoint has no operation or arguments.

```
wget "https://hoyo.zeetix.com:5101/gate/v0/resetSharedState"
```