JKI REST Client

JKI REST Client is a HTTP client library for connecting LabVIEW applications with RESTful web services. JKI REST Client provides a client implementation of HTTP protocol that is specifically designed for integrating LabVIEW applications with web services. JKI REST Client augments the LabVIEW native implementation of HTTP by adding several features that make it better fit for connecting with RESTful web services than LabVIEW native HTTP client.

Installation

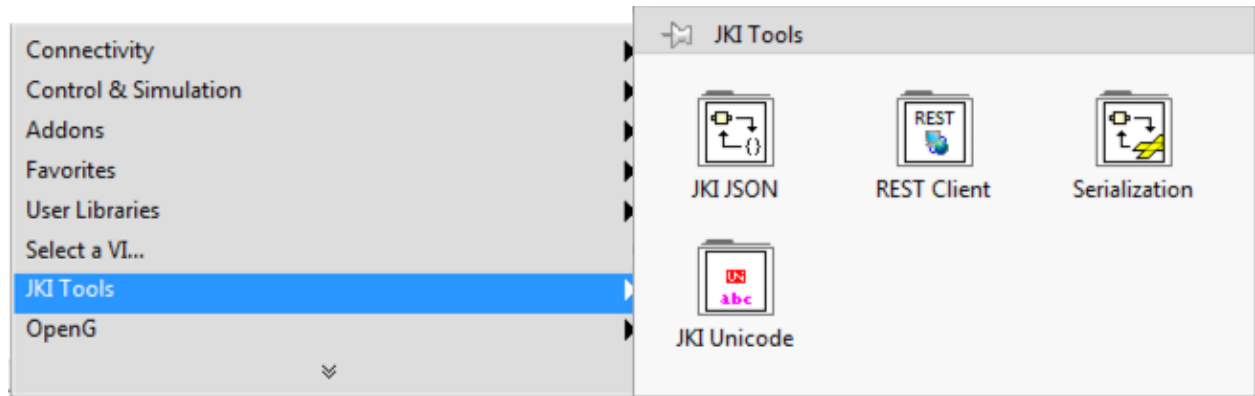You can download and install JKI REST Client with VI Package Manager.

[Get JKI REST Client](#)

Usage

JKI REST Client is a LabVIEW toolkit providing a library of VIs for connecting LabVIEW applications with REST based web services.

Palette

To use JKI REST Client, you need to drop the corresponding JKI REST Client VIs to the block diagrams. The JKI REST Client VIs are located under the JKI Tools functions palette menu.
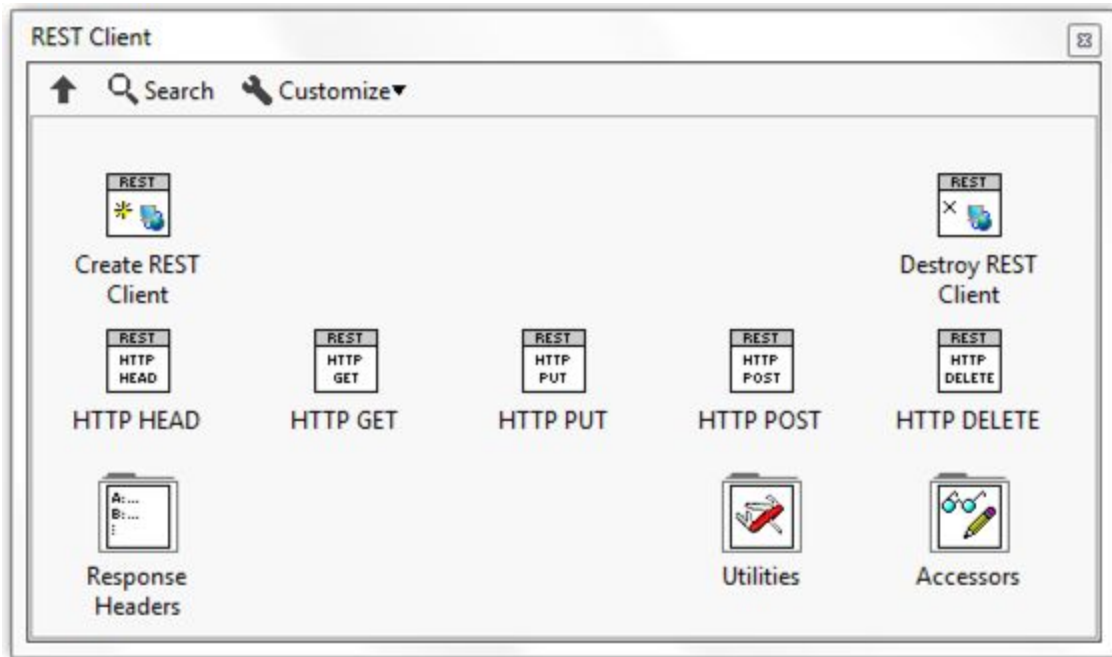
Basic Workflow

The toolkit provides a VI for connecting LabVIEW applications with RESTful web services. The basic workflow is presented in the image below.
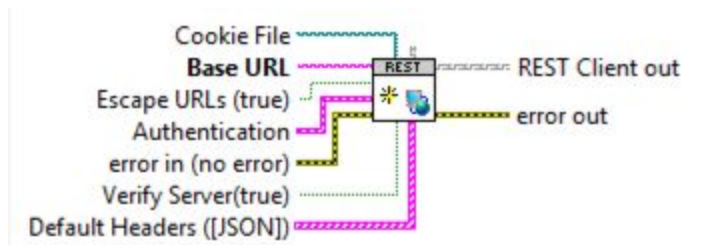
API Reference

Main Palette

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Create REST Client

Create REST Client creates an instance of the client.

The VI provides multiple arguments for defining how to create the JKI REST Client instance.

Base URL specifies the base URL to be used for the HTTP requests.

Escape URLs when true instruct the REST Client to escape all URLs before executing the requests. If you have already escaped the URLs, set this to false.

Authentication allows setting the username and password for services that use HTTP authentication.

Verify Server when true instructs the REST Client to validate the certificate of the server when HTTPS protocol is being used.
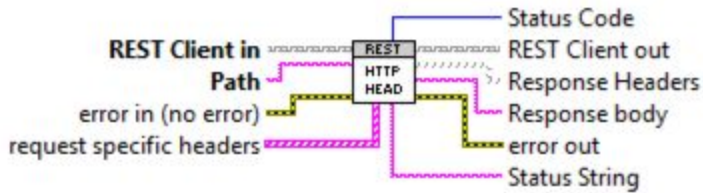
Default Headers specifies an array of headers to be used with every requests. Defaults to application/json content type.

Cookie File specifies a file path to be used for cookies.
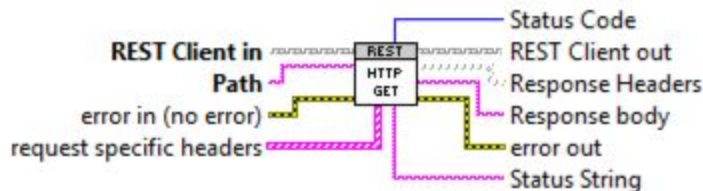
HTTP HEAD

Performs a HTTP HEAD Request.

The VI provides multiple arguments for defining how to perform the HTTP request.

Path specifies the path beneath the Base URL to be used for the HTTP request.

request specific headers specifies an array of headers to be used with this particular HTTP request. The Default Headers specified upon creation of the JKI REST Client together with the request specific headers will all be used for the HTTP request.

HTTP GET

Performs a HTTP GET Request.

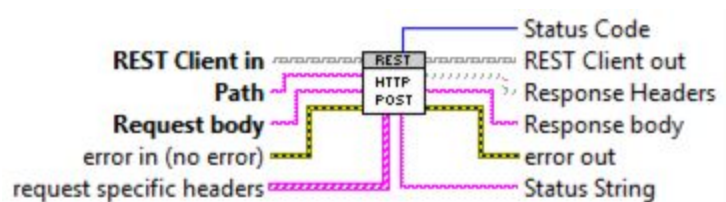The VI provides multiple arguments for defining how to perform the HTTP request.

Path specifies the path beneath the Base URL to be used for the HTTP request.

request specific headers specifies an array of headers to be used with this particular HTTP request. The Default Headers specified upon creation of the JKI REST Client together with the request specific headers will all be used for the HTTP request.

HTTP POST

Performs a HTTP POST Request.

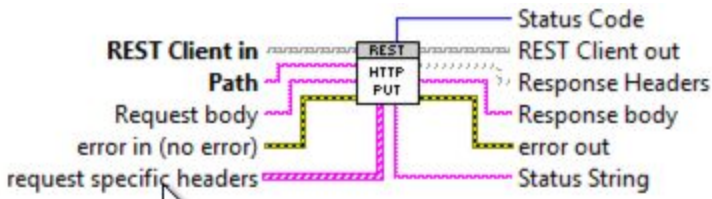The VI provides multiple arguments for defining how to perform the HTTP request.

Path specifies the path beneath the Base URL to be used for the HTTP request.

Request body specifies the body of the request to be send to the server.

request specific headers specifies an array of headers to be used with this particular HTTP request. The Default Headers specified upon creation of the JKI REST Client together with the request specific headers will all be used for the HTTP request.

HTTP PUT

Performs a HTTP PUT Request.

The VI provides multiple arguments for defining how to perform the HTTP request.
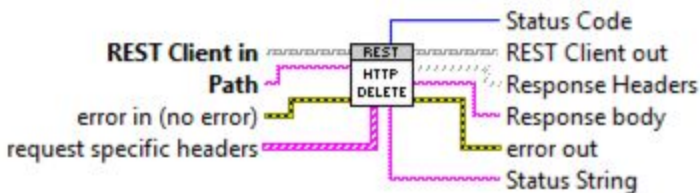
Path specifies the path beneath the Base URL to be used for the HTTP request.

Request body specifies the body of the request to be send to the server.

request specific headers specifies an array of headers to be used with this particular HTTP request. The Default Headers specified upon creation of the JKI REST Client together with the request specific headers will all be used for the HTTP request.

HTTP DELETE

Performs a HTTP DELETE Request.

The VI provides multiple arguments for defining how to perform the HTTP request.

Path specifies the path beneath the Base URL to be used for the HTTP request.

request specific headers specifies an array of headers to be used with this particular HTTP request. The Default Headers specified upon creation of the JKI REST Client together with the request specific headers will all be used for the HTTP request.
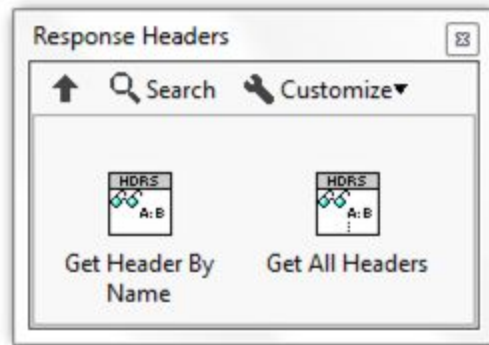
Destroy REST Client

Closes REST Client instance and closes up all open HTTP connections.

Response Headers Palette

Get Header By Name

Gets a response HTTP header value by name.

The VI provides the following arguments.

Name specifies the name of the HTTP header to get.

Get All Headers

Gets all response HTTP headers.