



Wisdom Tool REST Client

Wisdom Tool REST Client

Author : Yu Dong Wang (Dom Wang)

Version : 1.1

Date : Oct 1, 2017

Email : wisdomtool@outlook.com



Contents

1.	Prerequisite.....	3
2.	REST Client.....	3
2.1	Menu Bar View.....	4
2.1.1	Menu [File]	5
2.1.2	Menu [Edit]	5
2.1.3	Menu [Test]	6
2.1.1	Menu [Apidoc]	6
2.1.2	Menu [Help]	7
2.2	HTTP Request View.....	7
2.3	HTTP Response View	11
2.4	HTTP History View.....	12
3.	FAQ.....	17



1. Prerequisite

Table 1. Prerequisite

Java	1.7 or higher
OS	Windows
Browser	IE 9 or higher Firefox 51.0 or higher Chrome 53.0 or higher

2. REST Client

Figure 1. REST Client View

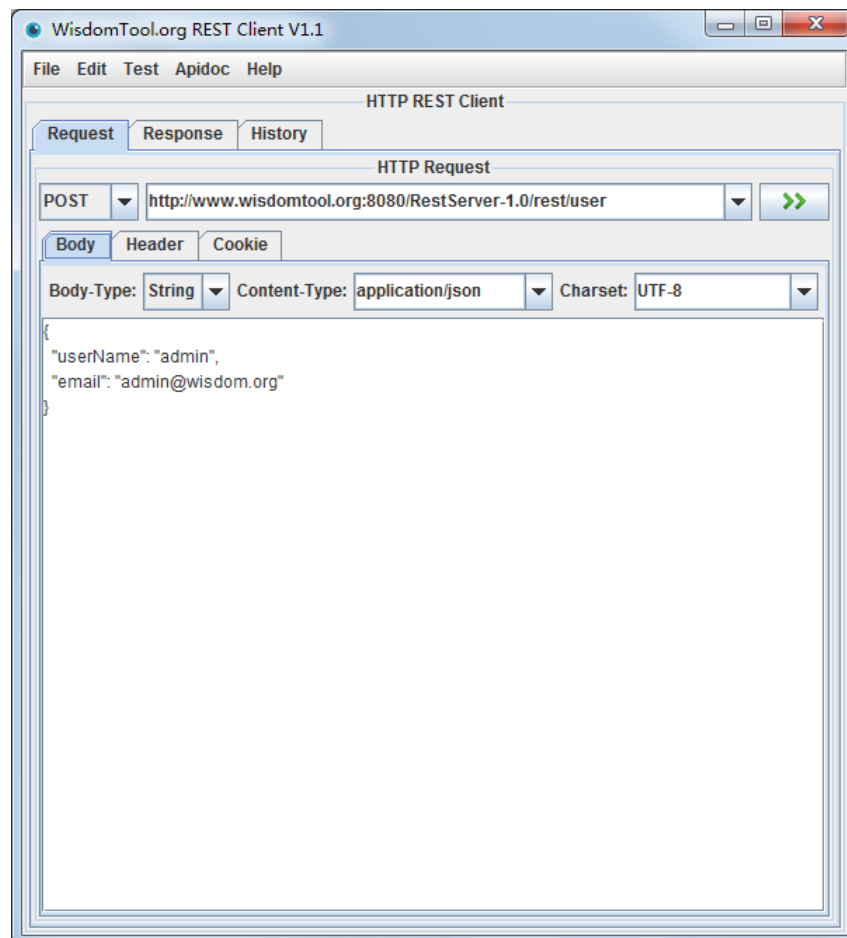




Table 2. REST Client View

View	Component
Menu Bar View	File Edit Test Apidoc Help
HTTP Request View	Method URL Body Header Cookie
HTTP Response View	Status Body Header Raw Text
HTTP History View	Request Response Date Time Assert Body

2.1 Menu Bar View

Figure 2. Menu Bar View



Table 3. Menu Bar View

Menu	Menu Item
File	Import Export Exit
Edit	Reset Request Reset Response Reset All Remove All
Test	Start Test Stop Test Test Report
Apidoc	Create



Wisdom Tool REST Client

	Open
Help	Help Contents Report Issue About Tool

2.1.1 Menu [File]

Figure 3. Menu [File]

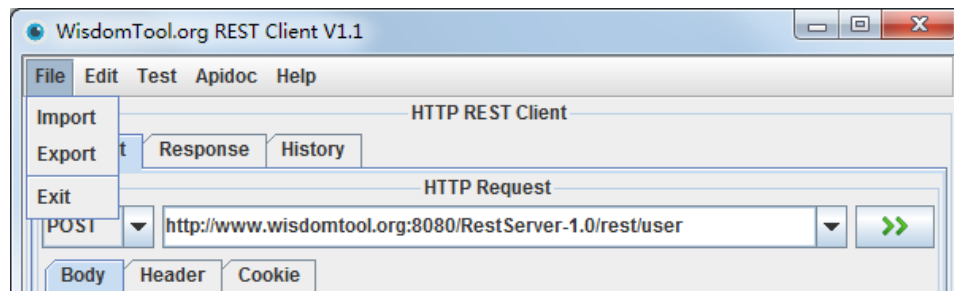


Table 4. Menu [File]

Menu Item	Detail
Import	Import history file that export before
Export	Export current HTTP history to a file
Exit	Exit REST Client

2.1.2 Menu [Edit]

Figure 4. Menu [Edit]

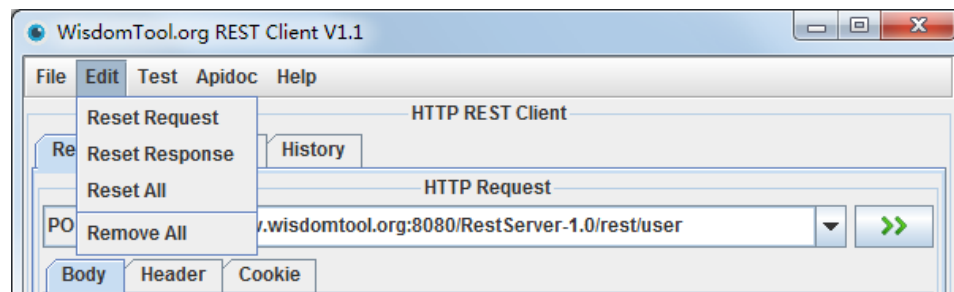


Table 5. Menu [Edit]



Wisdom Tool REST Client

Menu Item	Detail
Reset Request	Reset request view
Reset Response	Reset response view
Reset All	Reset both request and response view
Remove All	Remove all the HTTP history

2.1.3 Menu [Test]

Figure 5. Menu [Test]

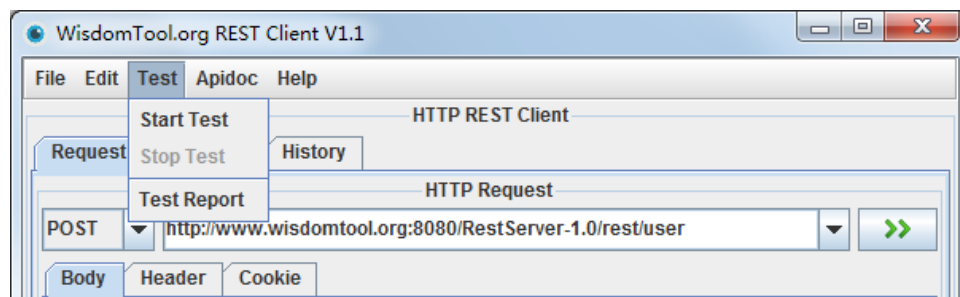


Table 6. Menu [Test]

Menu Item	Detail
Start Test	Start testing HTTP history
Stop Test	Stop testing HTTP history
Test Report	Open testing report of HTTP history

2.1.1 Menu [Apidoc]

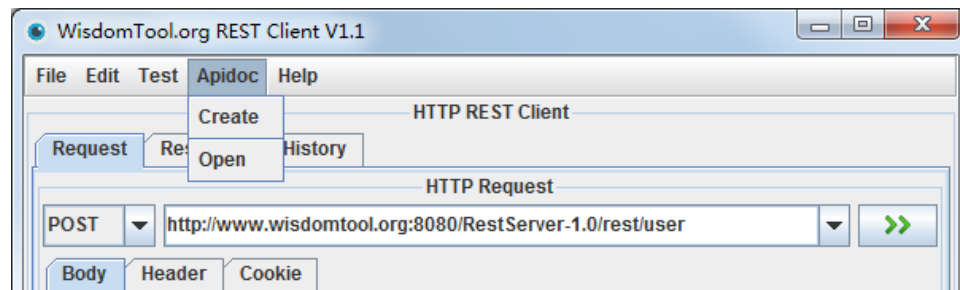


Table 7. Menu [Apidoc]

Menu Item	Detail
-----------	--------



Wisdom Tool REST Client

Create	Create API document based on history
Open	Open API document generated last time

2.1.2 Menu [Help]

Figure 6. Menu [Help]

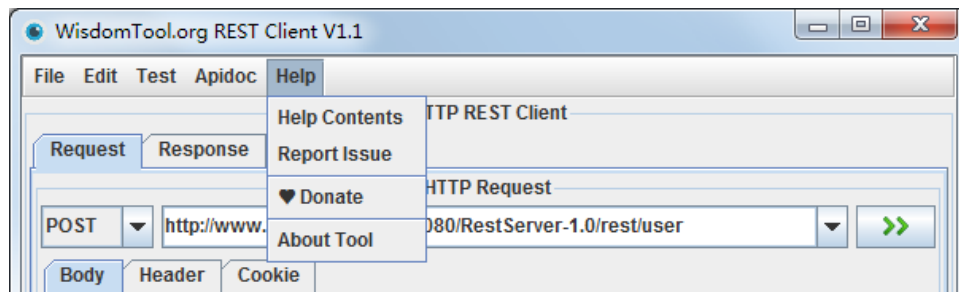


Table 8. Menu [Help]

Menu Item	Detail
Help Contents	Open help contents to get help
Report Issue	Report issue for the REST client tool
About Tool	Know about the REST client tool

2.2 HTTP Request View

Figure 7. Method & URL

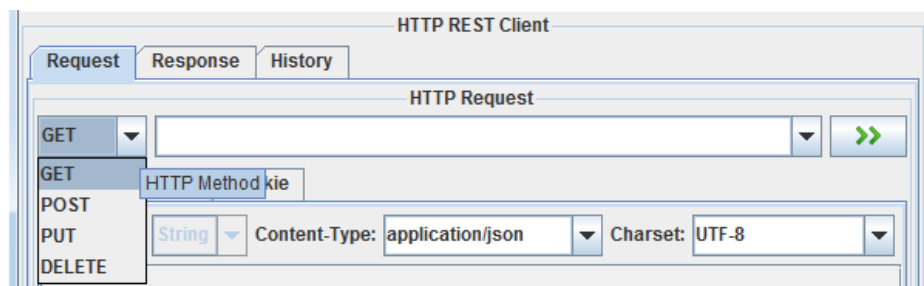


Figure 8. Body->Body Type->String

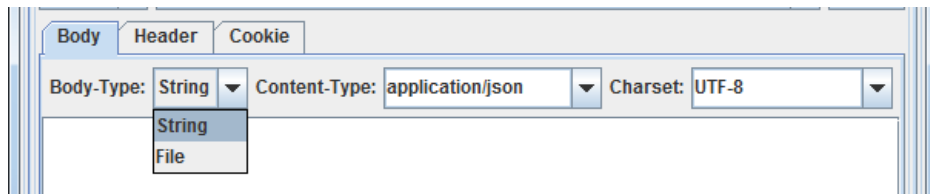


Figure 9. Body->Body Type->File

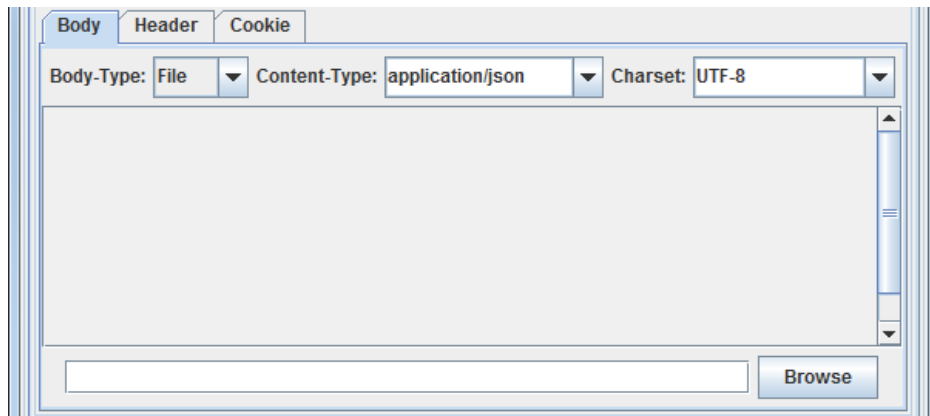


Figure 10. Body->Content Type

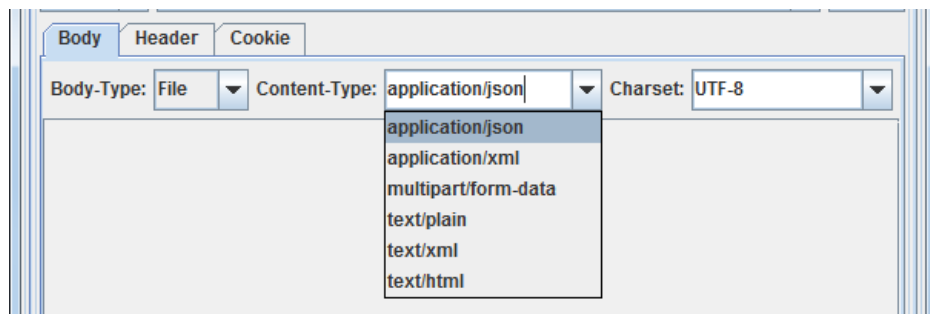


Figure 11. Body->Charset

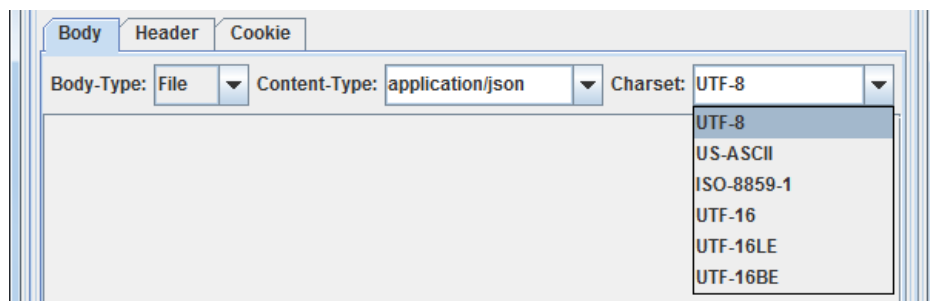




Figure 12. Body->Content

The screenshot shows the 'HTTP REST Client' window with the 'Request' tab selected. The 'HTTP Request' section shows a POST method to the URL 'http://www.wisdomtool.org:8080/RestServer-1.0/rest/user'. The 'Body' tab is active, showing 'Body-Type: String', 'Content-Type: application/json', and 'Charset: UTF-8'. The body content is a JSON object:

```
{
  "userName": "admin",
  "email": "admin@wisdom.org"
}
```

Figure 13. Header

The screenshot shows the 'HTTP REST Client' window with the 'Request' tab selected. The 'HTTP Request' section shows a GET method to an empty URL. The 'Header' tab is active, displaying a table with 'Key' and 'Value' columns. There are input fields for 'Key' and 'Value', and buttons for adding (+) and removing (-) headers.

Figure 14. Cookie

The screenshot shows the 'HTTP REST Client' window with the 'Request' tab selected. The 'HTTP Request' section shows a GET method to an empty URL. The 'Cookie' tab is active, displaying a table with 'Cookie' and 'Value' columns. There are input fields for 'Key' and 'Value', and buttons for adding (+) and removing (-) cookies.

Table 9. Request View

Component	Detail
Method	Supported methods: GET



	POST PUT DELETE	
URL	Supported protocol: HTTP HTTPS	
Body	Body Type	String - Get body by inputting string File - Get body by loading a file
	Body Content	Supported to input string or load file to get body content.
	Content Type	application/json application/xml multipart/form-data text/plain text/xml text/html If all the above content types are not met, supported to input custom type.
	Charset	UTF-8 US-ASCII ISO-8859-1 UTF-16 UTF-16LE UTF-16BE If all the above charsets are not met, supported to input custom type.
Header	Add or remove headers with key/value pair	
Cookie	Add or remove cookies with key/value pair *Note* : some web container is supported to add session ID to cookie, thus can access restful API without logon application. For example: JSESSIONID=D82DC5F78710A36E60E038B047F4A435 For apache tomcat, user can add JSESSIONID to cookie to access restful API directly by REST client tool. User can batch update JSESSIONID in file work/http_history.json.	



2.3 HTTP Response View

Figure 15. Response

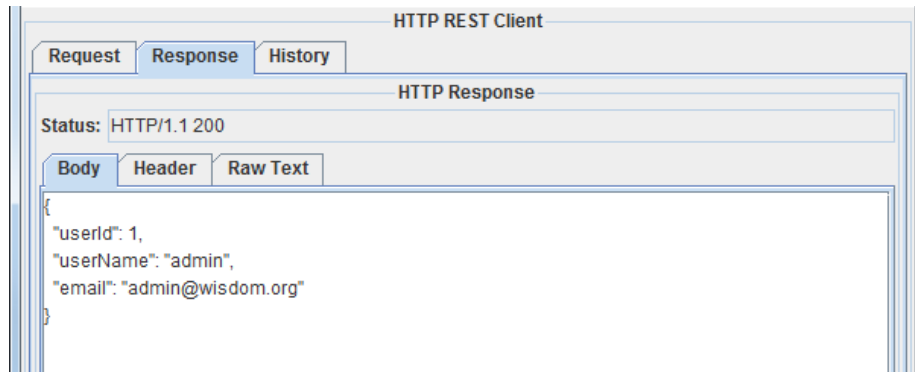


Figure 16. Status

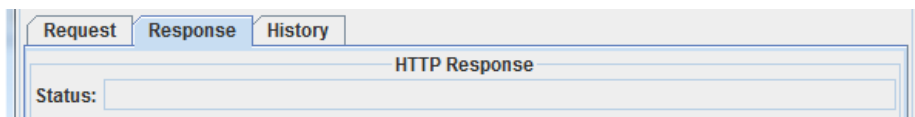


Figure 17. Body

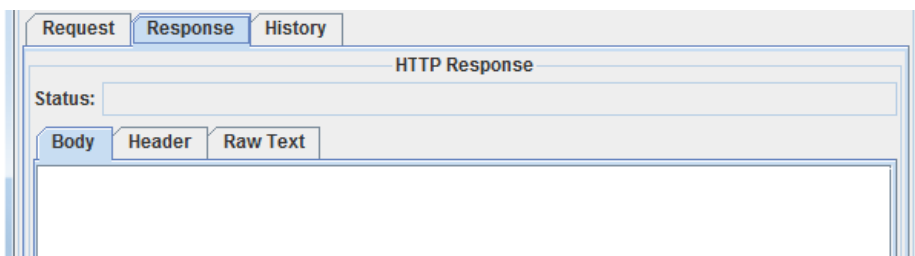


Figure 18. Header

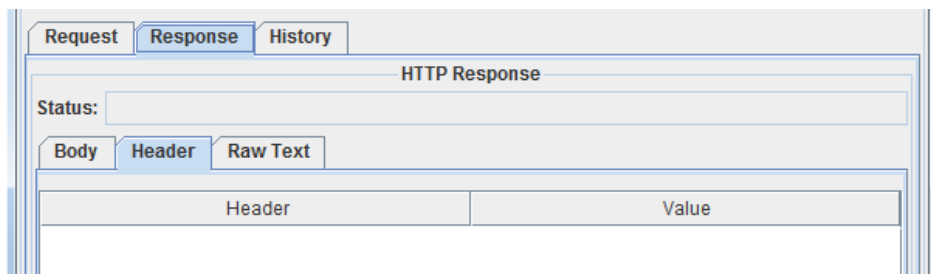


Figure 19. Raw Text

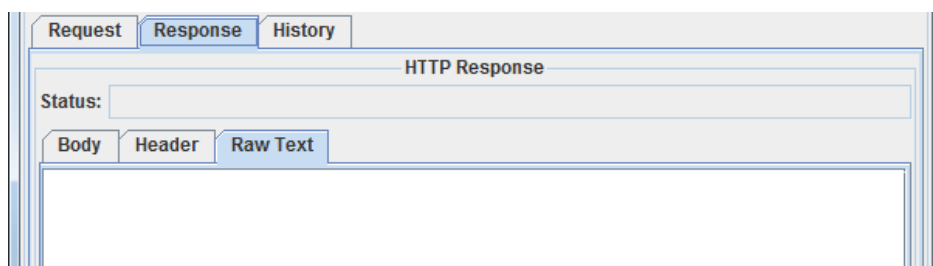


Table 10. Response View

Component	Detail
Status	HTTP status code
Body	Response body
Header	Response header
Raw Text	Raw text which contains HTTP request information (HTTP method, URL, header, body) and HTTP response information (HTTP status, header, body)

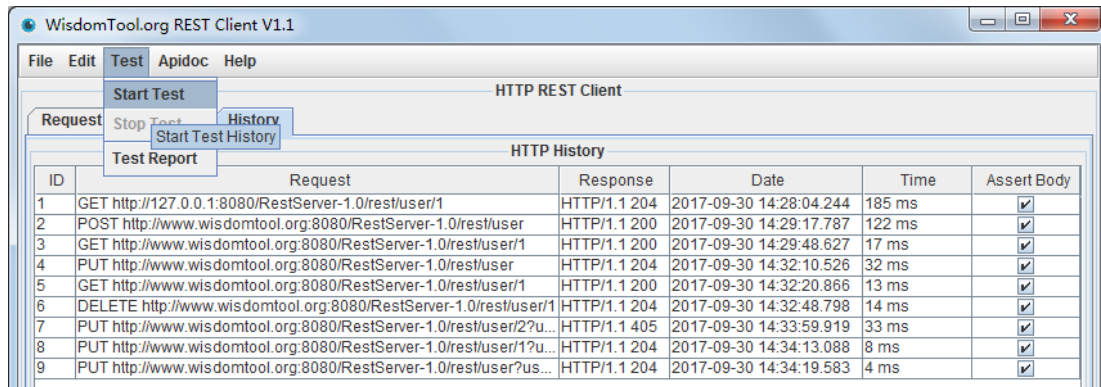
2.4 HTTP History View

Figure 20. HTTP History View

HTTP REST Client						
Request Response History						
ID	Request	Response	Date	Time	Assert Body	
1	GET http://127.0.0.1:8080/RestServer-1.0/rest/user/1	HTTP/1.1 204	2017-09-30 14:28:04.244	185 ms	<input checked="" type="checkbox"/>	
2	POST http://www.wisdomtool.org:8080/RestServer-1.0/rest/user	HTTP/1.1 200	2017-09-30 14:29:17.787	122 ms	<input checked="" type="checkbox"/>	
3	GET http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 200	2017-09-30 14:29:48.627	17 ms	<input checked="" type="checkbox"/>	
4	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user	HTTP/1.1 204	2017-09-30 14:32:10.526	32 ms	<input checked="" type="checkbox"/>	
5	GET http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 200	2017-09-30 14:32:20.866	13 ms	<input checked="" type="checkbox"/>	
6	DELETE http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 204	2017-09-30 14:32:48.798	14 ms	<input checked="" type="checkbox"/>	
7	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/2?u...	HTTP/1.1 405	2017-09-30 14:33:59.919	33 ms	<input checked="" type="checkbox"/>	
8	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1?u...	HTTP/1.1 204	2017-09-30 14:34:13.088	8 ms	<input checked="" type="checkbox"/>	
9	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user?us...	HTTP/1.1 204	2017-09-30 14:34:19.583	4 ms	<input checked="" type="checkbox"/>	



Figure 21. Test HTTP History



ID	Request	Response	Date	Time	Assert Body
1	GET http://127.0.0.1:8080/RestServer-1.0/rest/user/1	HTTP/1.1 204	2017-09-30 14:28:04.244	185 ms	<input checked="" type="checkbox"/>
2	POST http://www.wisdomtool.org:8080/RestServer-1.0/rest/user	HTTP/1.1 200	2017-09-30 14:29:17.787	122 ms	<input checked="" type="checkbox"/>
3	GET http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 200	2017-09-30 14:29:48.627	17 ms	<input checked="" type="checkbox"/>
4	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user	HTTP/1.1 204	2017-09-30 14:32:10.526	32 ms	<input checked="" type="checkbox"/>
5	GET http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 200	2017-09-30 14:32:20.866	13 ms	<input checked="" type="checkbox"/>
6	DELETE http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 204	2017-09-30 14:32:48.798	14 ms	<input checked="" type="checkbox"/>
7	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/2?u...	HTTP/1.1 405	2017-09-30 14:33:59.919	33 ms	<input checked="" type="checkbox"/>
8	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1?u...	HTTP/1.1 204	2017-09-30 14:34:13.088	8 ms	<input checked="" type="checkbox"/>
9	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user?us...	HTTP/1.1 204	2017-09-30 14:34:19.583	4 ms	<input checked="" type="checkbox"/>

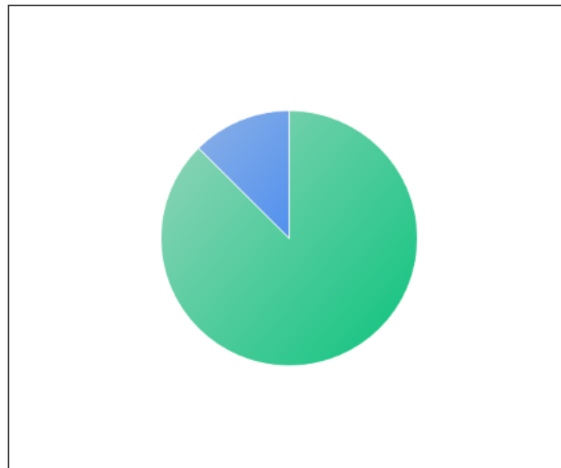
Figure 22. Report of Test History



Test Report

This report is generated by [Wisdom Tool](#)

Total	8
Passes	7
Failures	1
Errors	0



ID	Request	Response	Date	Time	Result	Cause
1	GET http://127.0.0.1:8080/RestServer-1.0/rest/user/1	HTTP/1.1 204	2017-09-30 15:17:33.448	27 ms	PASS	-
2	POST http://www.wisdomtool.org:8080/RestServer-1.0/rest/user	HTTP/1.1 200	2017-09-30 15:17:33.480	8 ms	PASS	-
3	GET http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 200	2017-09-30 15:17:33.488	3 ms	PASS	-
4	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user	HTTP/1.1 204	2017-09-30 15:17:33.491	3 ms	PASS	-
5	GET http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 200	2017-09-30 15:17:33.493	2 ms	PASS	-
6	DELETE http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 204	2017-09-30 15:17:33.496	2 ms	PASS	-
7	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/2?userId=1&password=Admin@123	HTTP/1.1 405	2017-09-30 15:17:33.498	4 ms	PASS	-
8	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1?userId=1&password=Admin@123	HTTP/1.1 204	2017-09-30 15:17:33.502	3 ms	FAILURE	The cause of the error/failure: 10003 -- 执行用例返回的状态码 [405] 与之前结果的状态码 [204] 不一致。

Figure 23. Create API Document Based on History



The screenshot shows the 'HTTP History' window of the 'WisdomTool.org REST Client V1.1'. It contains a table with 8 rows of request and response data. The table has columns for ID, Request, Response, Date, Time, and Assert Body. All requests are successful, with status codes 200 or 204.

ID	Request	Response	Date	Time	Assert Body
1	GET http://127.0.0.1:8080/RestServer-1.0/rest/user/1	HTTP/1.1 204	2017-09-30 14:28:04.244	185 ms	✓
2	POST http://www.wisdomtool.org:8080/RestServer-1.0/rest/user	HTTP/1.1 200	2017-09-30 14:29:17.787	122 ms	✓
3	GET http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 200	2017-09-30 14:29:48.627	17 ms	✓
4	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user	HTTP/1.1 204	2017-09-30 14:32:10.526	32 ms	✓
5	GET http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 200	2017-09-30 14:32:20.866	13 ms	✓
6	DELETE http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1	HTTP/1.1 204	2017-09-30 14:32:48.798	14 ms	✓
7	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/2?user...	HTTP/1.1 405	2017-09-30 14:33:59.919	33 ms	✓
8	PUT http://www.wisdomtool.org:8080/RestServer-1.0/rest/user/1?user...	HTTP/1.1 204	2017-09-30 14:34:13.088	8 ms	✓

Figure 24. RESTful API Document

RESTful API

This RESTful API document is generated by [Wisdom Tool](#)

GET	/RestServer-1.0/rest/user/{id}	Query user
POST	/RestServer-1.0/rest/user	Create user
PUT	/RestServer-1.0/rest/user	Update user
DELETE	/RestServer-1.0/rest/user/{id}	Delete user
PUT	/RestServer-1.0/rest/user/{id} ?userId= {userId} &password= {password}	Update user

Figure 25. RESTful API Details



GET /RestServer-1.0/rest/user/ {id} Query user

POST /RestServer-1.0/rest/user Create user

Request

Name	Description
Header	<pre>Content-Type : application/json; charset=UTF-8 Accept : application/json</pre>
Body	<div>Model Example</div> <pre>userName [string] email [string]</pre>

Response

Status	Description
HTTP/1.1 200	<div>OK</div> <div>Model Example</div> <pre>{ "userId": 1, "userName": "admin", "email": "admin@wisdom.org" }</pre>

PUT /RestServer-1.0/rest/user Update user

Table 11. Response View

Feature	Detail
Assert Body	The default is selected to compare response body with the history case. If some case is not applicable to body comparison, please deselect it.
Start test	Test all the HTTP history
Stop test	Stop test while testing is running
Test report	Output test report, display in default browser



Remove selected history	Remove selected one or multiple history
Remove all history	Remove all the history
Select history	If selected one history, the history (HTTP request & response) can be set on both request view and response view.
Export history	Export current HTTP request & response to a file as JSON format.
Import history	Import a history file that export before to refresh current REST client view.

3. FAQ

This tool is developed by Wisdom Tool Organization.

http://www.wisdomtool.org

https://github.com/wisdomtool/rest-client

Please contact by e-mail for any insightful feedbacks, feature requests and bugs.

Author: Yu Dong Wang (Dom Wang)

E-mail: wisdomtool@outlook.com

Figure 26. About Tool

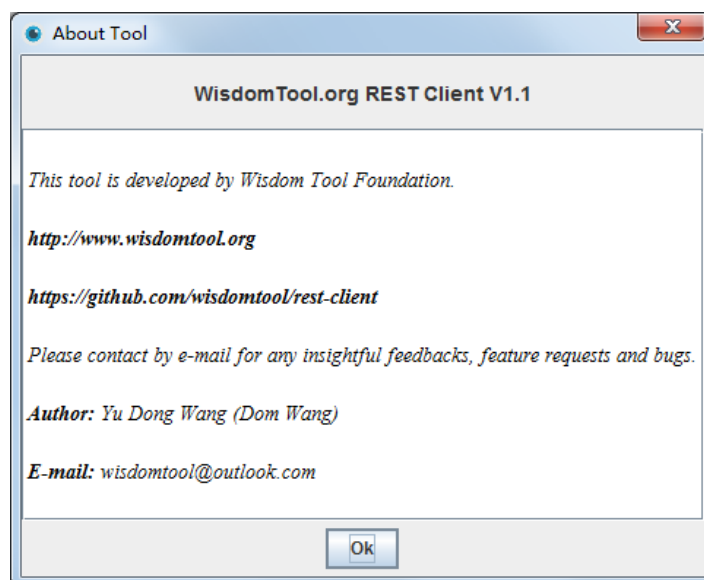




Table 12. Issues

Issue ID	Detail