

SoapUI



SoapUI - Przygotowanie środowiska

Pobranie i zainstalowanie najnowszej wersji SoapUI

<http://www.soapui.org/>

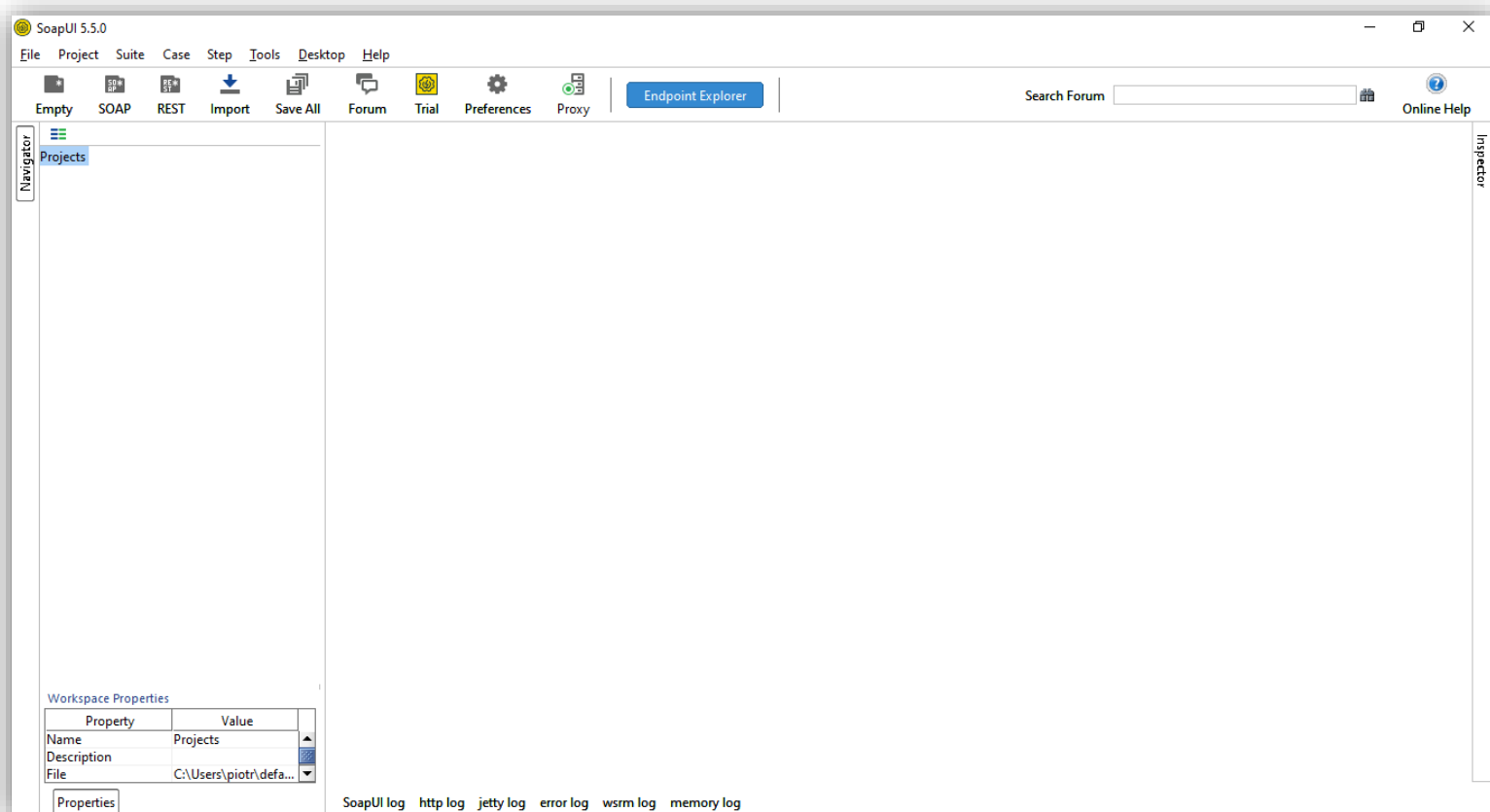


SoapUI



SoapUI - Uruchamianie

Uruchomienie SoapUI



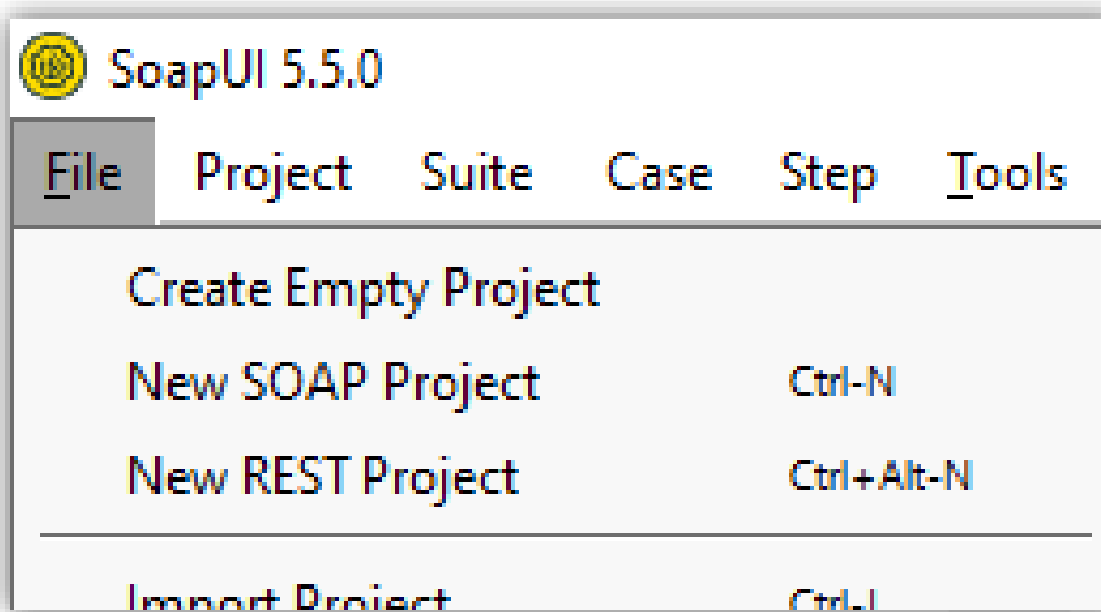
Zadanie

- Zainstaluj SoapUI
- Uruchom SoapUI



SoapUI - Projekt

Dodawanie nowego projektu:



SoapUI – Projekt SOAP

Dodawanie nowego projektu:

New SOAP Project
Creates a WSDL/SOAP based Project in this workspace

Project Name:

Initial WSDL:

Create Requests: ☐ Create sample requests for all operations?

Create TestSuite: ☐ Creates a TestSuite for the imported WSDL

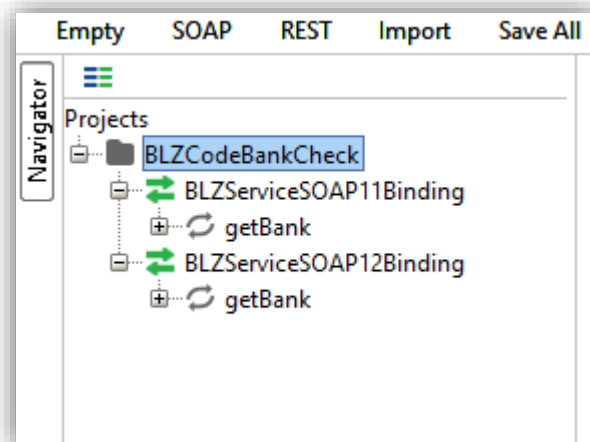
Relative Paths: ☐ Stores all file paths in project relatively to project file (requires save)

Nazwa projektu

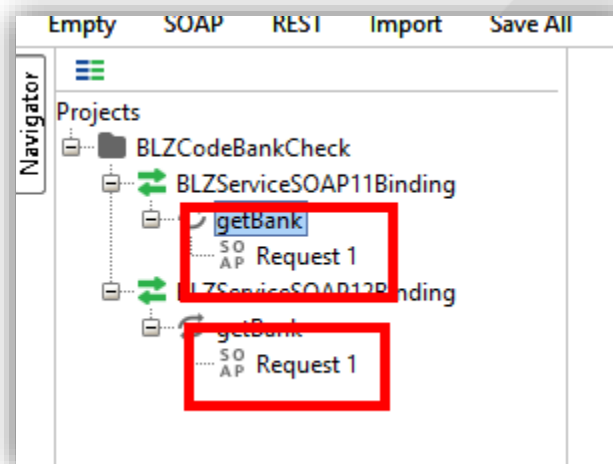
Adres WSDL

SoapUI - Projekt SOAP

Po dodaniu projektu
widzimy strukturę
dostępnych usług

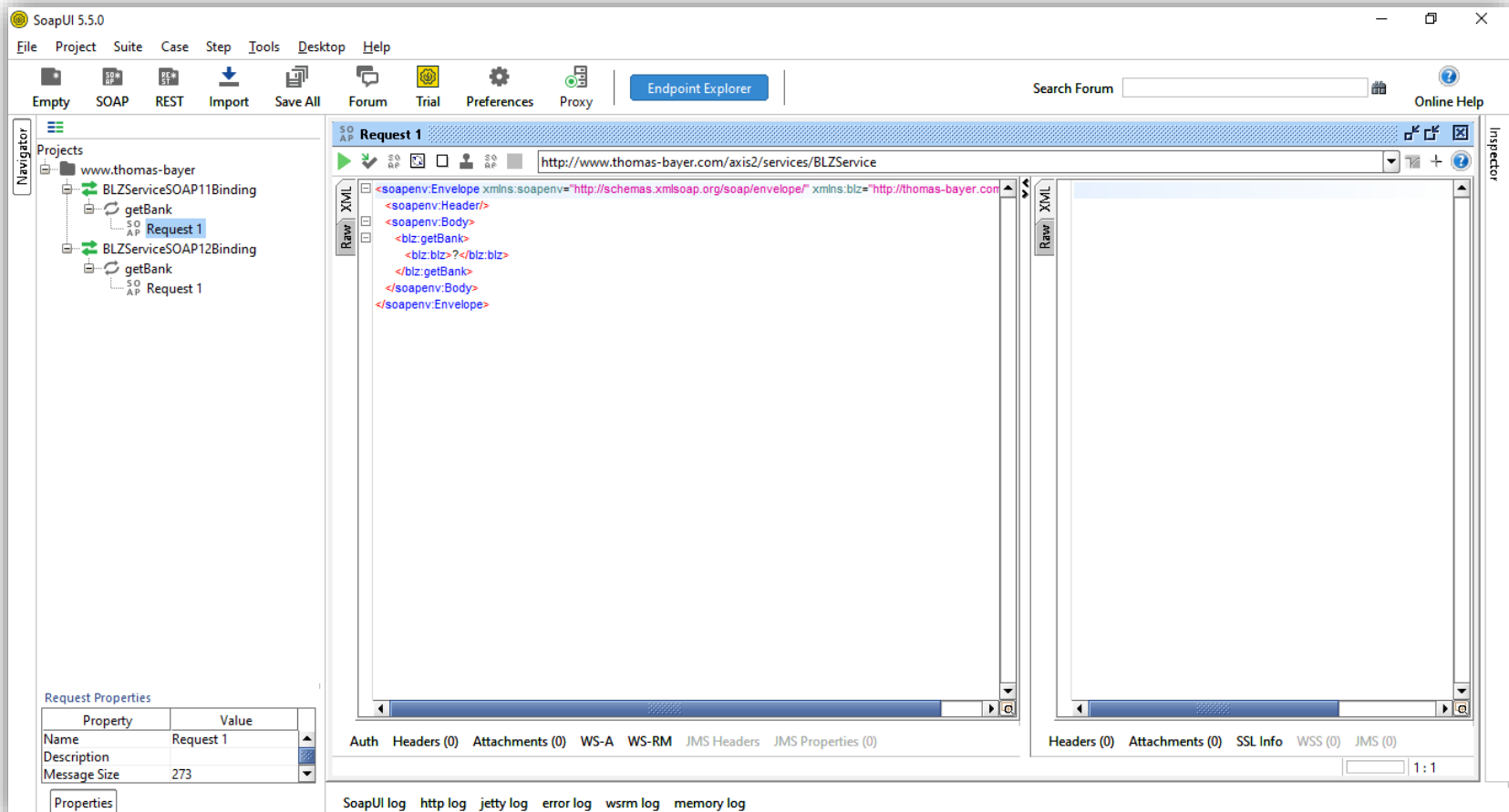


Do każdej usługi
dołączone są również
wzory zapytań



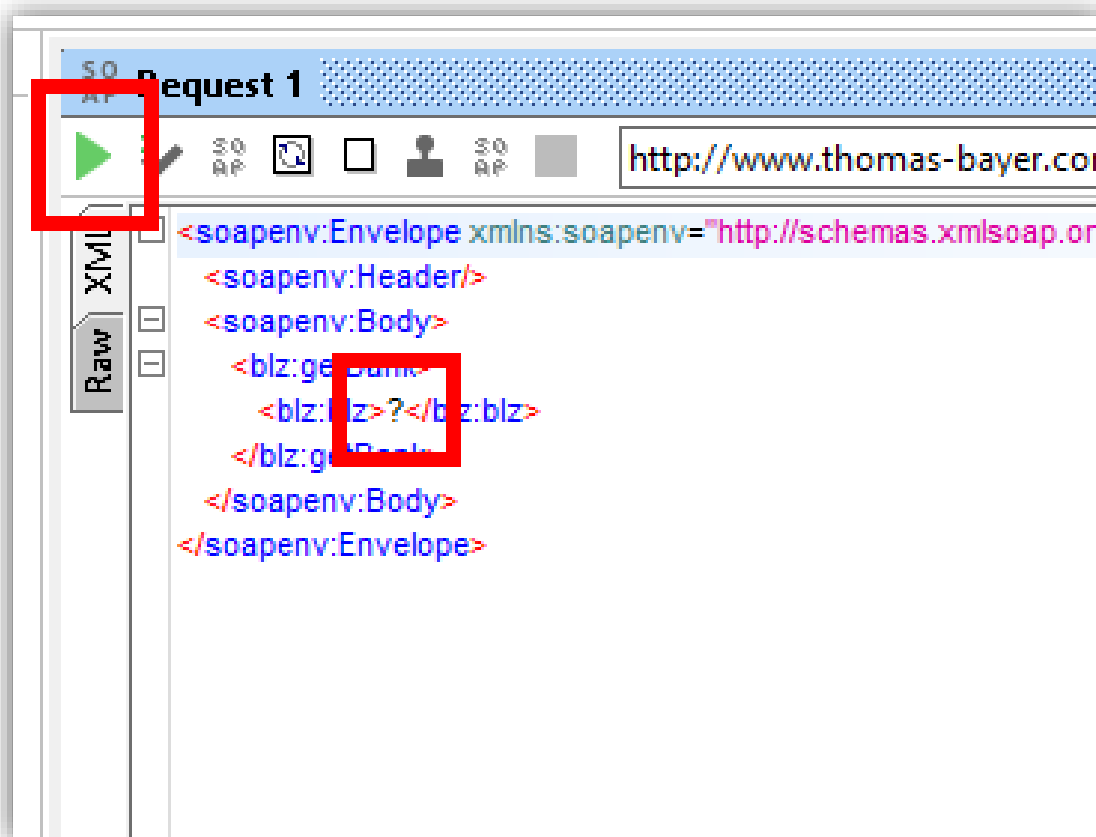
SoapUI - Projekt SOAP

Po otwarciu zapytania ukazuje się nam jego treść



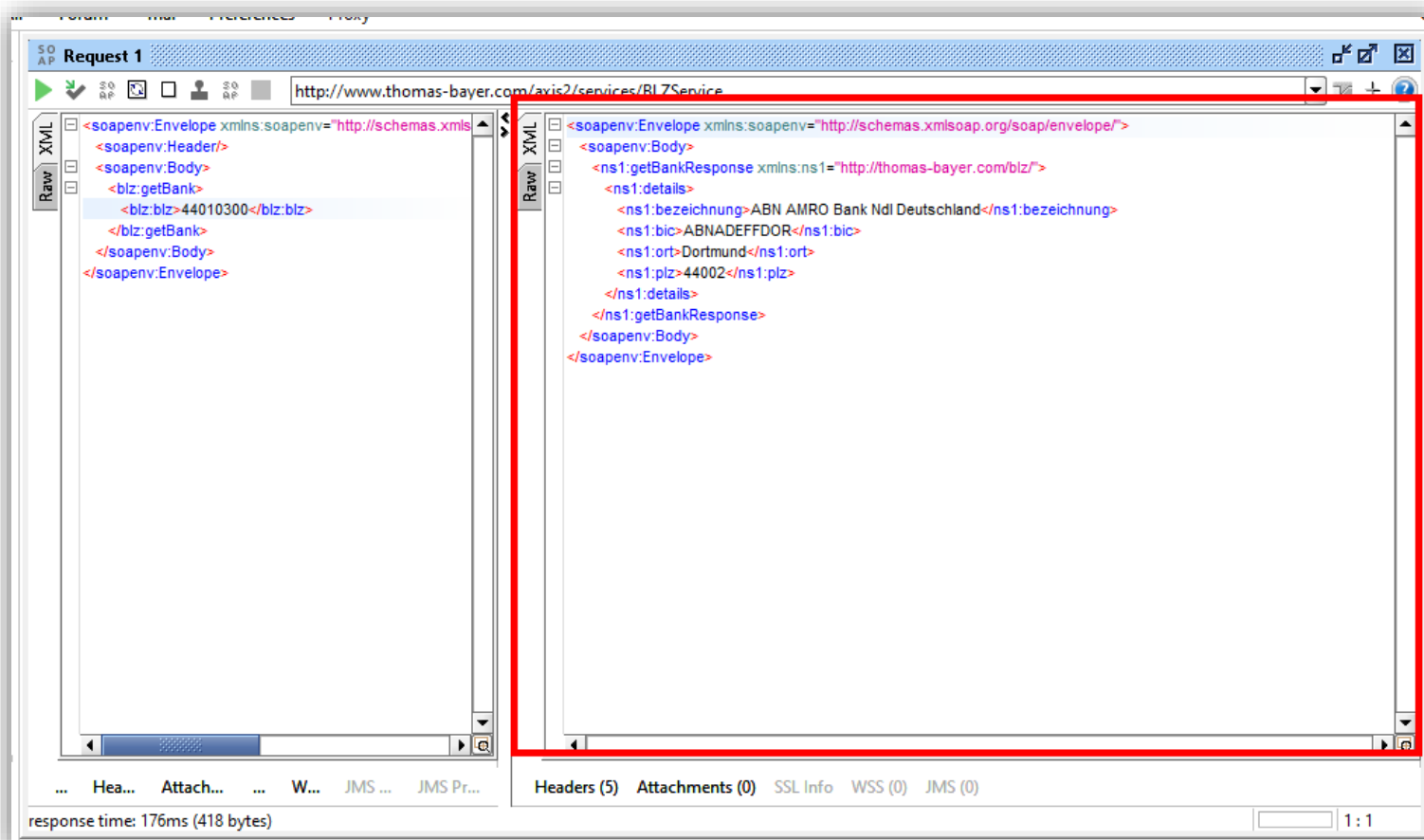
SoapUI - Projekt SOAP

Zapytanie trzeba uzupełnić konkretnymi danymi testowymi i uruchomić



SoapUI - Projekt SOAP

Na poprawne zapytanie dostajemy odpowiedź



Zadanie

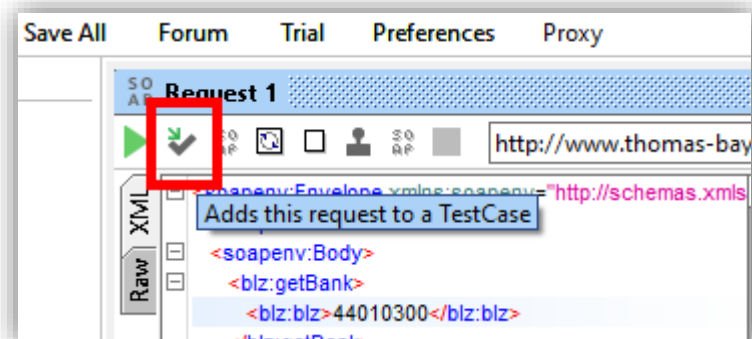
- Utwórz nowy projekt SOAP

`http://www.thomas-bayer.com/
axis2/services/BLZService?wsdl`

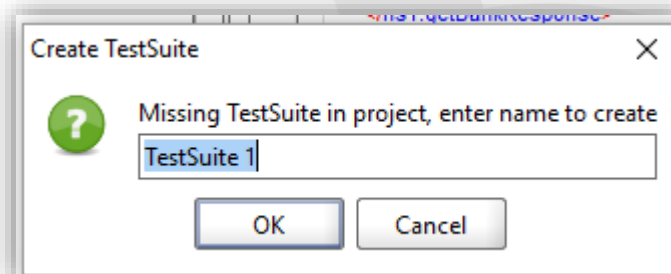
- Wyślij zapytanie i zweryfikuj odpowiedź

SoapUI - Projekt SOAP - Test Case

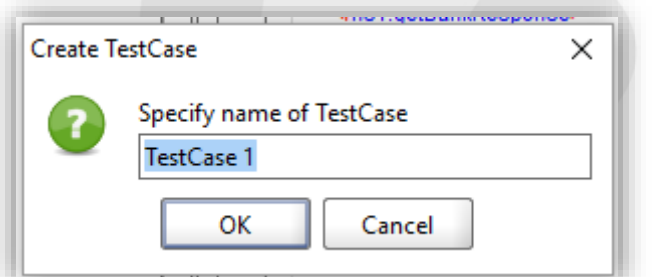
Dodawanie zapytania do Test Case'a



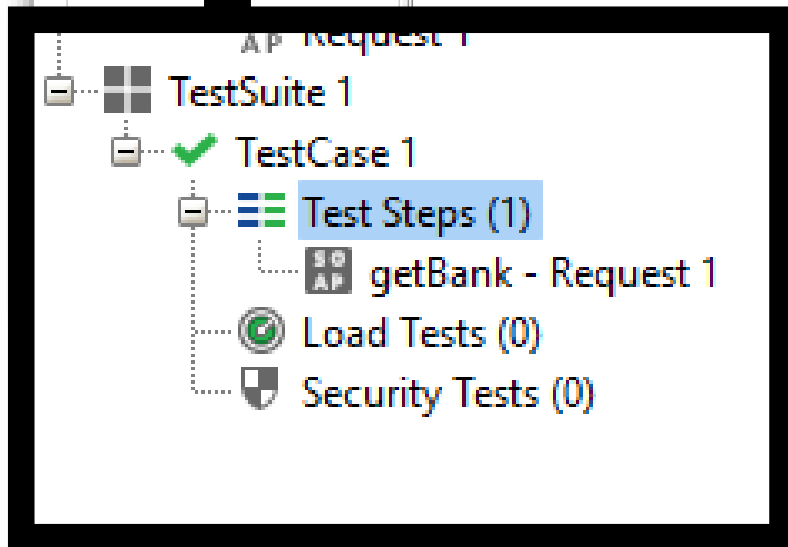
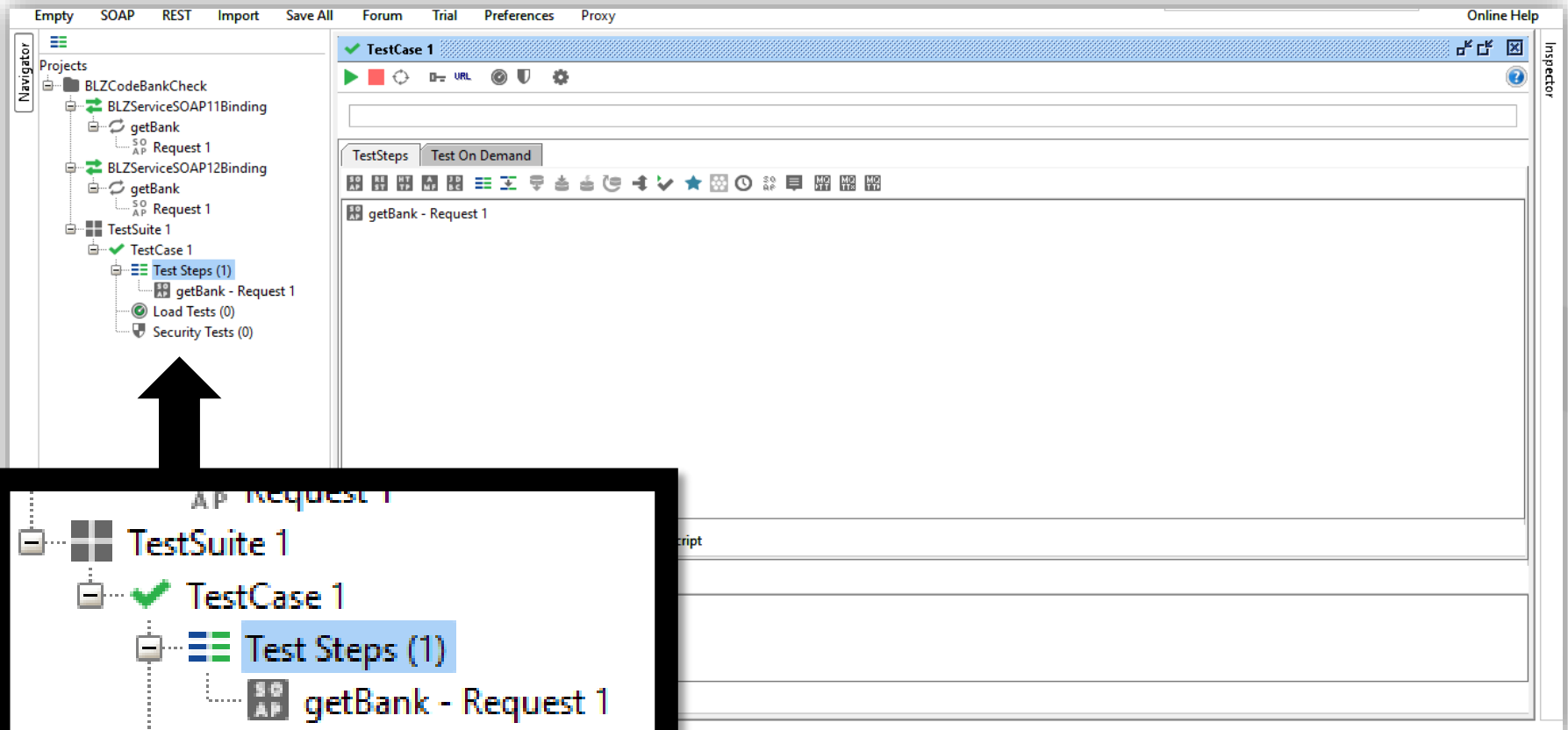
W przypadku gdy nie ma Test Suite'a jesteśmy poproszeni o jego utworzenie



W przypadku gdy nie ma Test Case'a jesteśmy poproszeni o jego utworzenie



SoapUI - Projekt SOAP - Test Case



Zadanie

- Utwórz Test Case i Test Suite



SoapUI - Projekt SOAP - Assercje

The screenshot shows the SoapUI application interface. On the left, the 'Navigator' pane displays a project structure with 'getBank - Request 1' selected. The main window shows the raw XML of the request. A dialog box titled 'Add Assertion' is open, displaying a list of assertion types. The 'Property Content' assertion is highlighted. The 'Add' button at the bottom right of the dialog is highlighted with a red box. A black arrow points from this button to a red box containing a plus sign and a gear icon in the main interface.

getBank - Request 1

http://www.thomas-bayer.com/axis2/services/BLZService

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <blz:getBank>
      <blz:blz>44010300</blz:blz>
    </blz:getBank>
  </soapenv:Body>
</soapenv:Envelope>
```

Add Assertion

Select the source property and which assertion to apply below

Assertions

- Property Content** (highlighted)
- Compliance, Status and Standards
- Script
- SLA
- JMS
- JDBC
- Security

Contains

Searches for the existence of a string token in the property value, supports regular expressions. Applicable to any property.

JsonPath Count

Uses an JsonPath expression to count the occurrences of an element. Applicable to any property containing JSON.

JsonPath Existence Match

Uses an JsonPath expression to select content from the target property and compares the result to an expected value. Applicable to any property containing JSON.

JsonPath Match

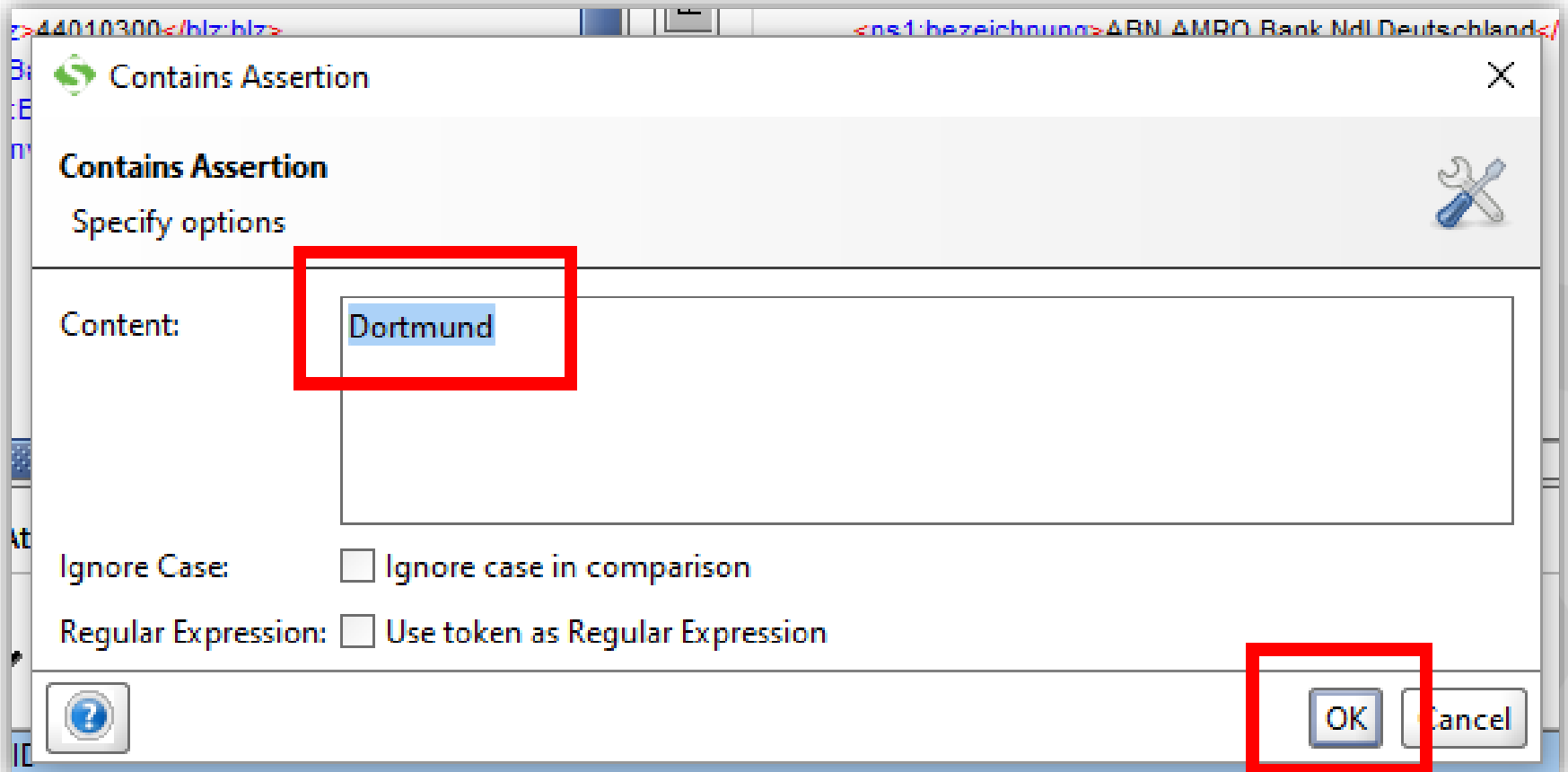
Uses an JsonPath expression to existence of a node and compares the result to an expected value. Applicable to any property containing JSON.

JsonPath RegEx Match

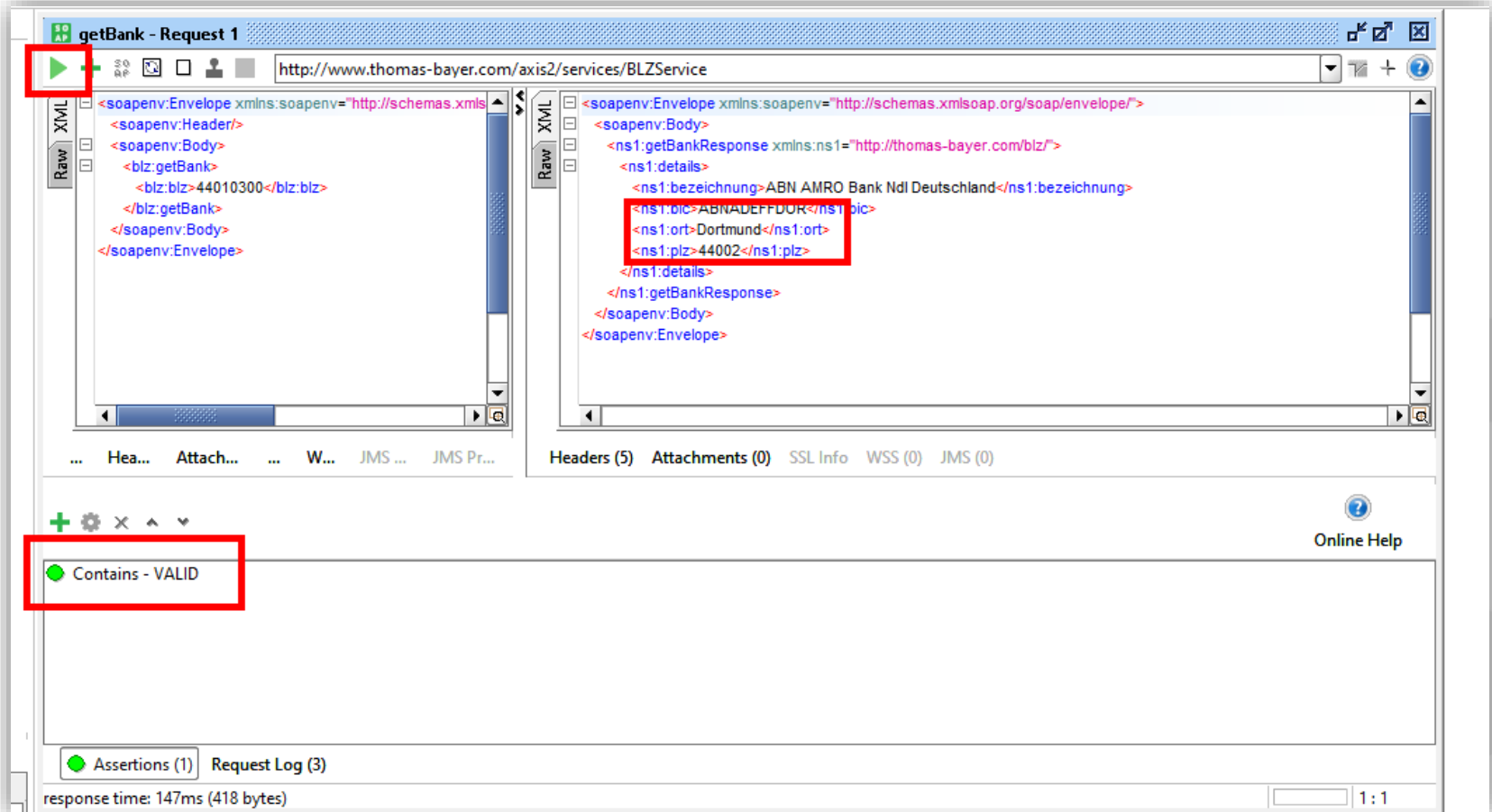
Uses an JsonPath expression to select content from the target property and compares the result to an specified RegEx. Applicable to any

Add **Cancel**

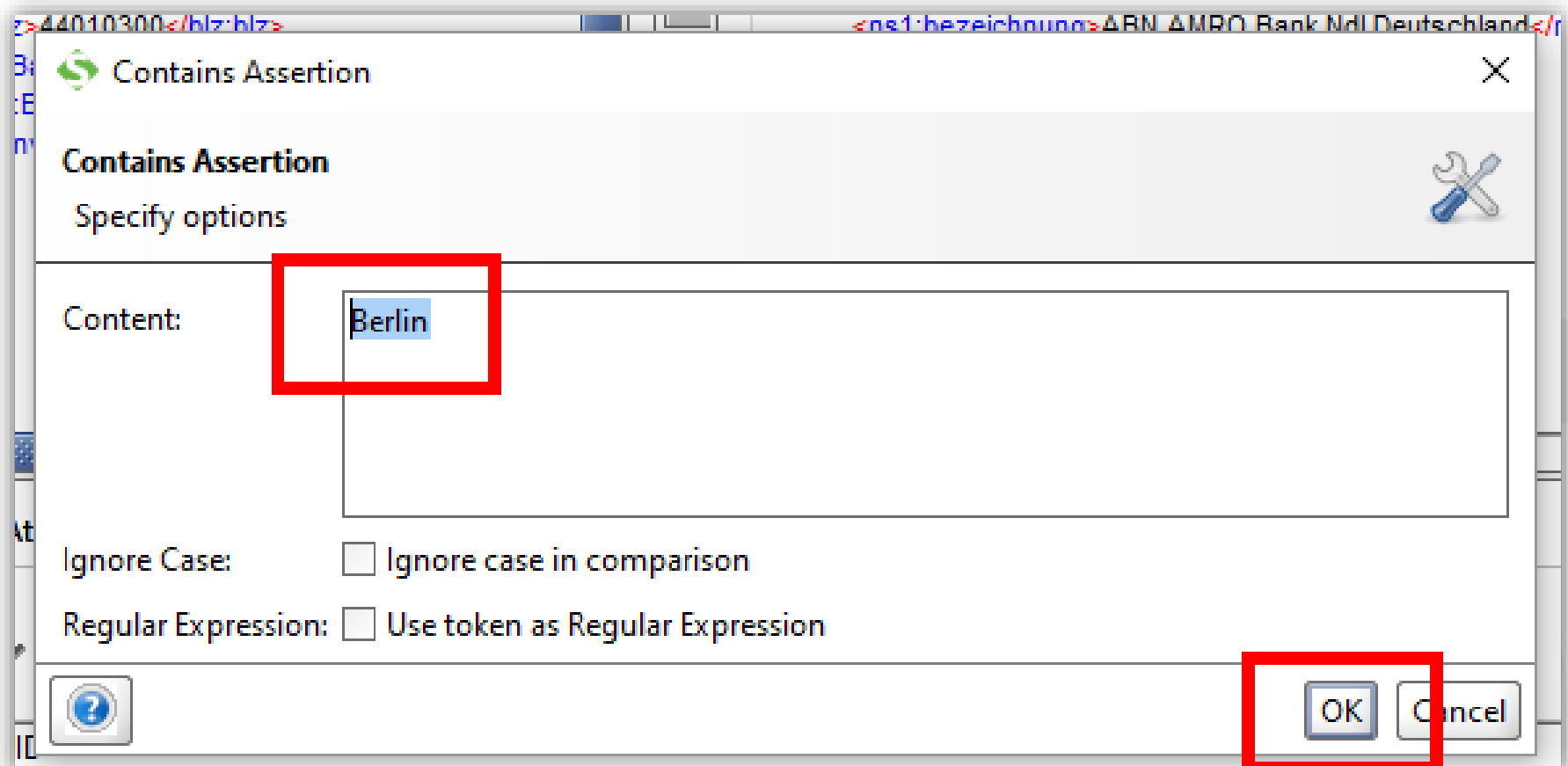
SoapUI - Projekt SOAP - Assercje



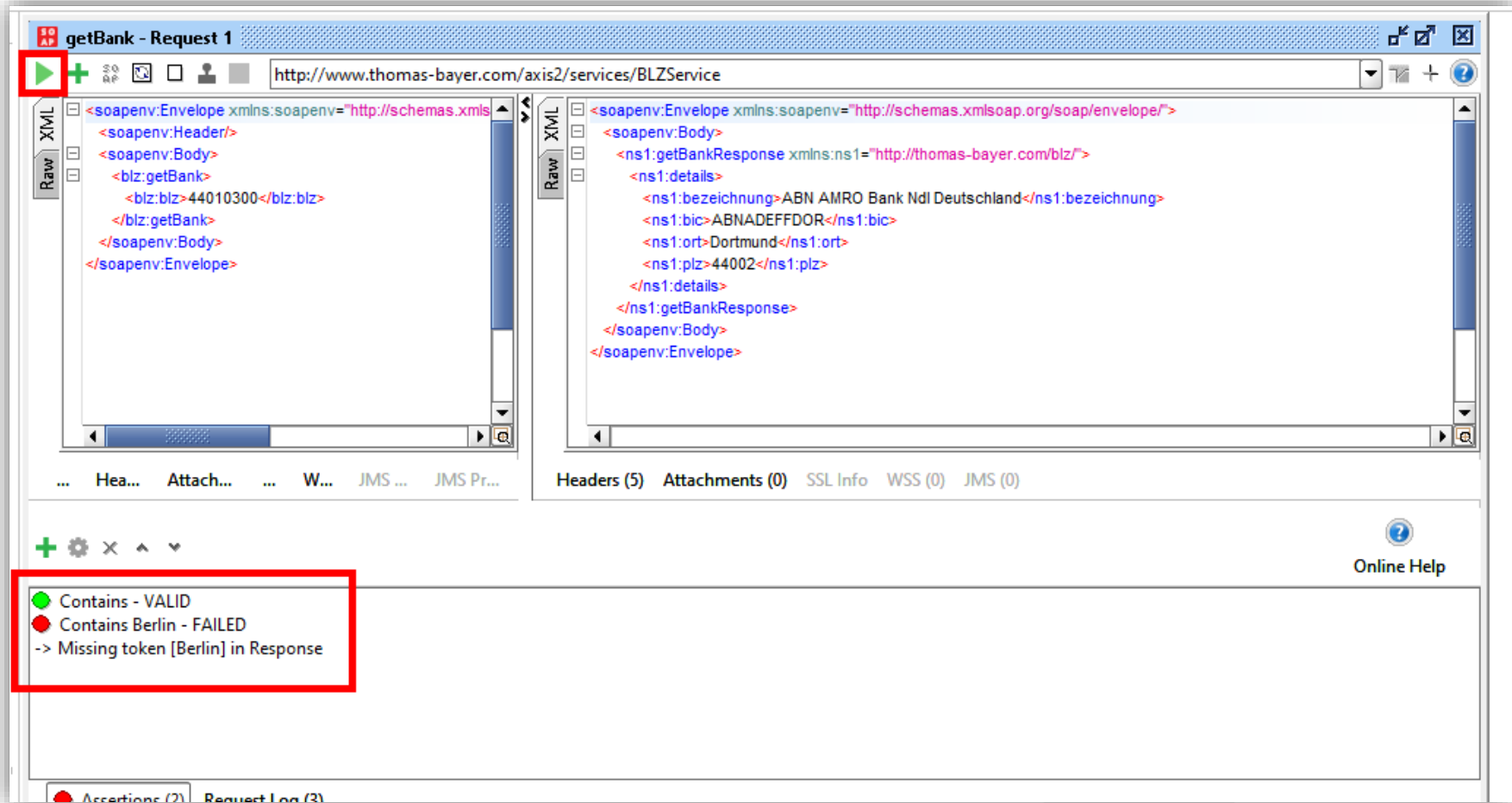
SoapUI - Projekt SOAP - Assercje



SoapUI - Projekt SOAP - Assercje

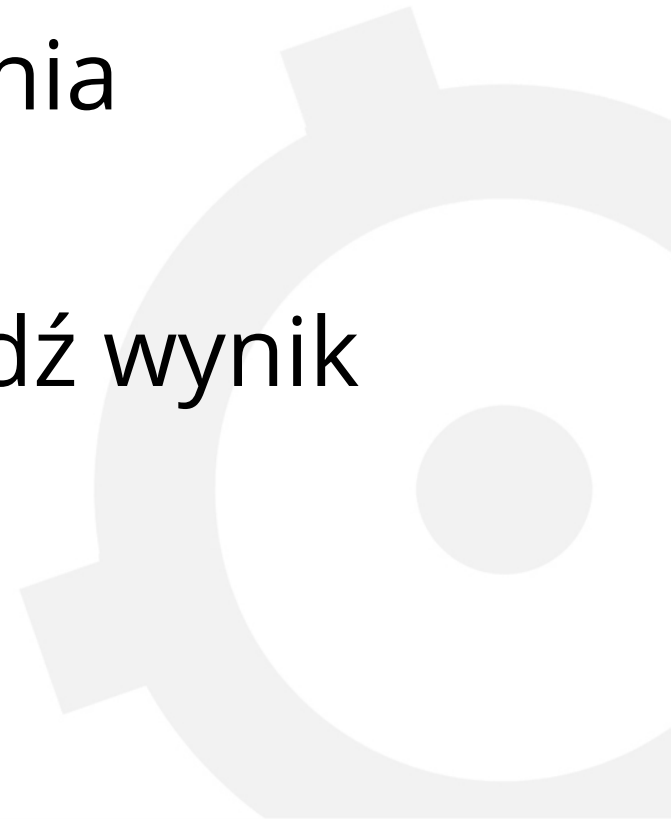


SoapUI - Projekt SOAP - Assercje

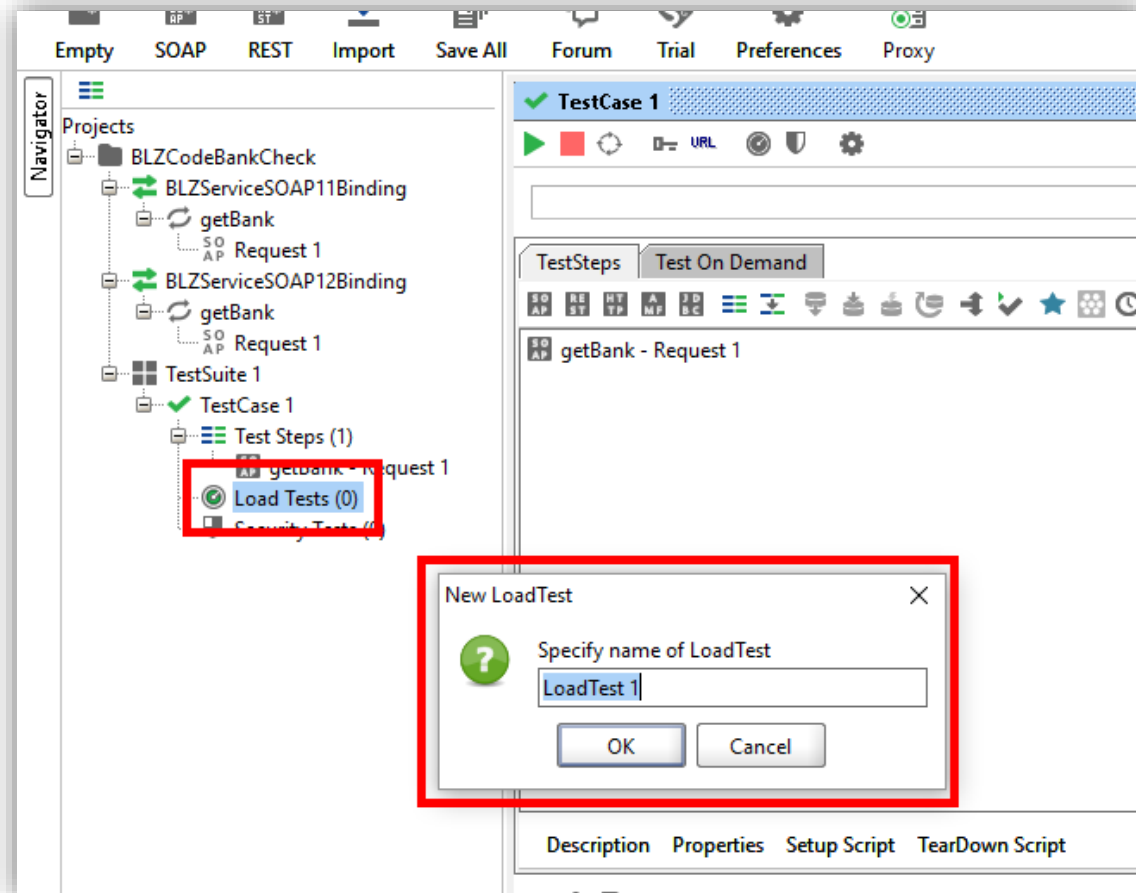


Zadanie

- Dodaj asercję do zapytania
- Wyślij zapytanie i sprawdź wynik asercji



SoapUI - Testy wydajności



SoapUI - Testy wydajności

LoadTest 1

Limit: 60 Seconds

Threads: 5 Strategy: Simple Test Delay: 1000 Random: 0.5

Test Step	min	max	avg	last	cnt	tps	bytes	bps	err	rat
getBank - Request 1	0	0	0	0	0	0	0	0	0	0
TestCase:	0	0	0	0	0	0	0	0	0	0

LoadTest 1

Run button (green play icon) and Threads: 15 are highlighted with a red box.

Strategy: Simple Test Delay: 1000 Random: 0.5

Test Step	min	max	avg	last	cnt
getBank - Request 1	0	0	0	0	0
TestCase:	0	0	0	0	0

SoapUI - Testy wydajności - Wyniki

The screenshot displays the SoapUI 5.4.0 interface. The left sidebar shows a project tree with 'BLZCodeBankCheck' containing several test suites and a 'LoadTest 1' selected. The main window shows the configuration and results for 'LoadTest 1'.

LoadTest 1 Configuration:

- Threads: 15
- Strategy: Simple
- Test Delay: 1000
- Random: 0.5
- Limit: 60 Seconds
- 100%

Performance Results Table:

Test Step	min	max	avg	last	cnt	tps	bytes	bps	err	rat
getBank - Request 1	76	177	84,27	81	1070	17,8	447260	7440	0	0
TestCase:	76	177	84,27	81	1070	17,8	447260	7440	0	0

Log Entries:

time	type	step	message
2018-05-17 18:46:42.586	Message		LoadTest started at Thu May 17 18:46:42 CEST 2018
2018-05-17 18:47:42.638	Message		LoadTest ended at Thu May 17 18:47:42 CEST 2018

LoadTest Properties:

Property	Value
Name	LoadTest 1
Description	

Log Files: SoapUI log, http log, jetty log, error log, wsrm log, memory log

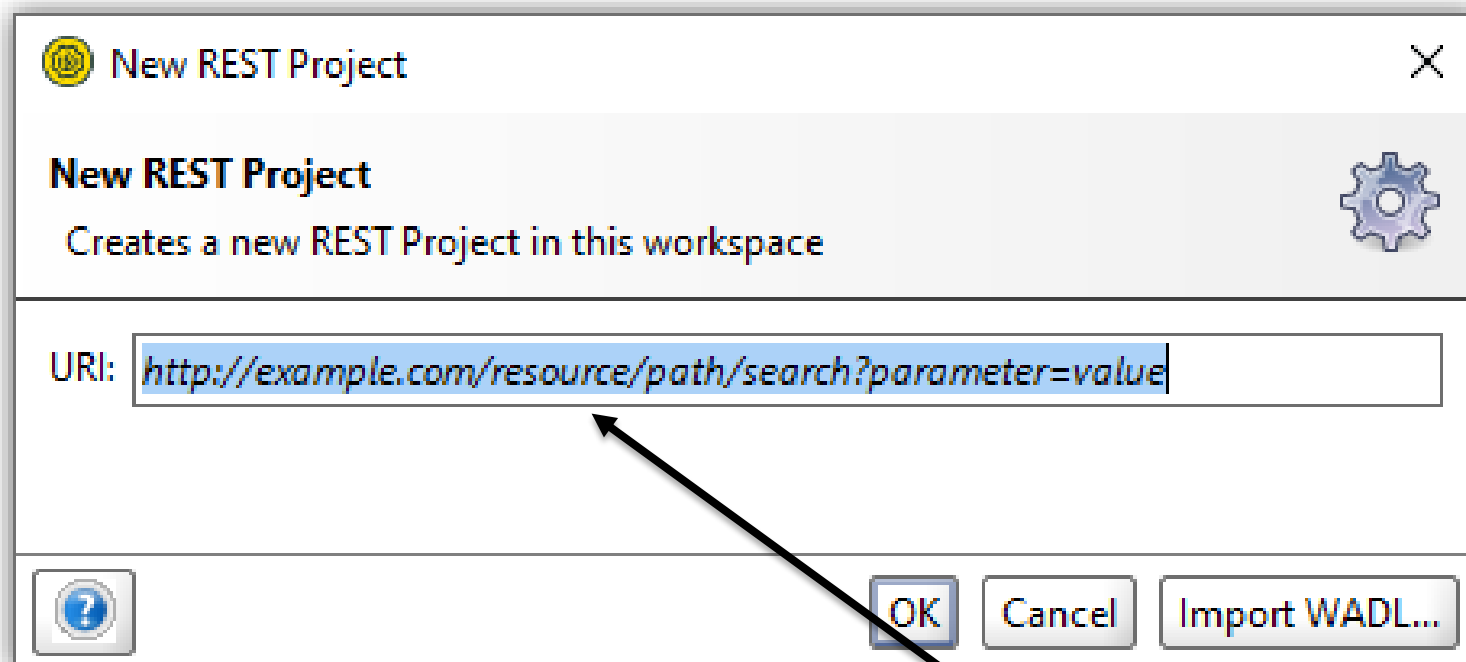
Zadanie

- Wykonaj prosty test wydajności



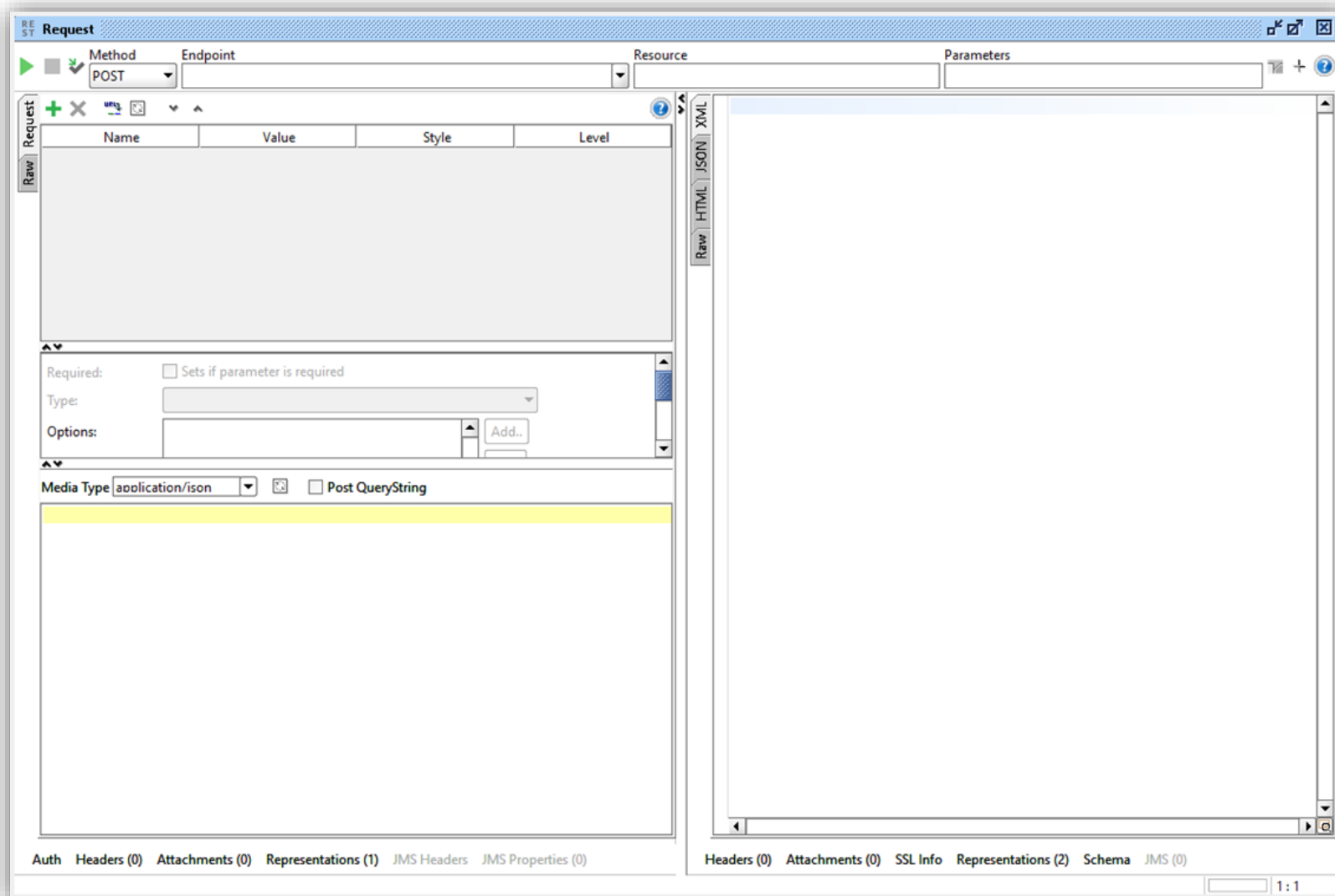
SoapUI - Projekt REST

Dodawanie nowego projektu:



Adres usługi

SoapUI – Projekt REST - Zapytania



SoapUI – Projekt REST - Zapytania

REST Request

Method: POST

Endpoint:

Resource:

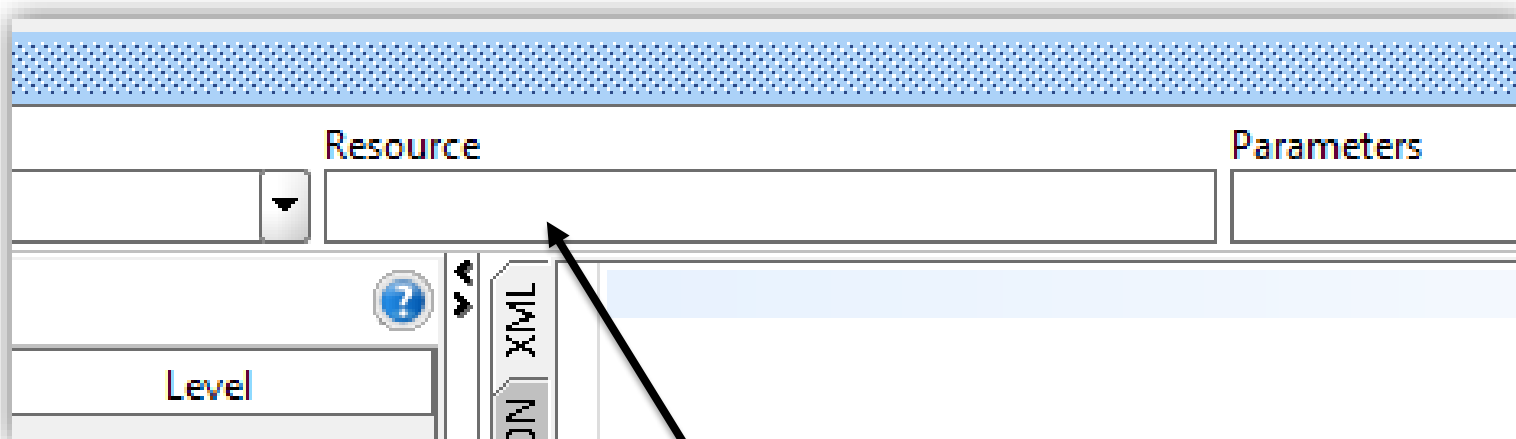
Name	Value	Style	Level
------	-------	-------	-------

JSON XML

Typ metody

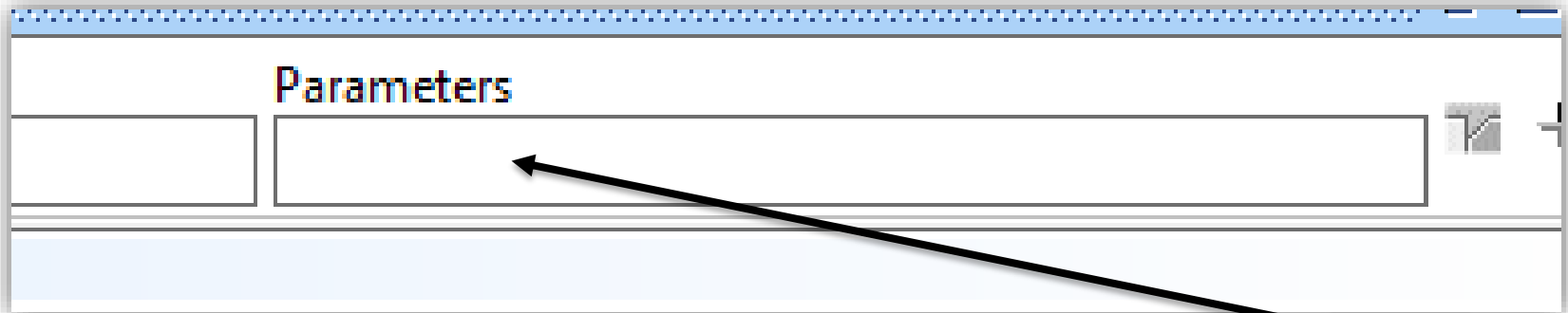
Adres usługi

SoapUI – Projekt REST - Zapytania



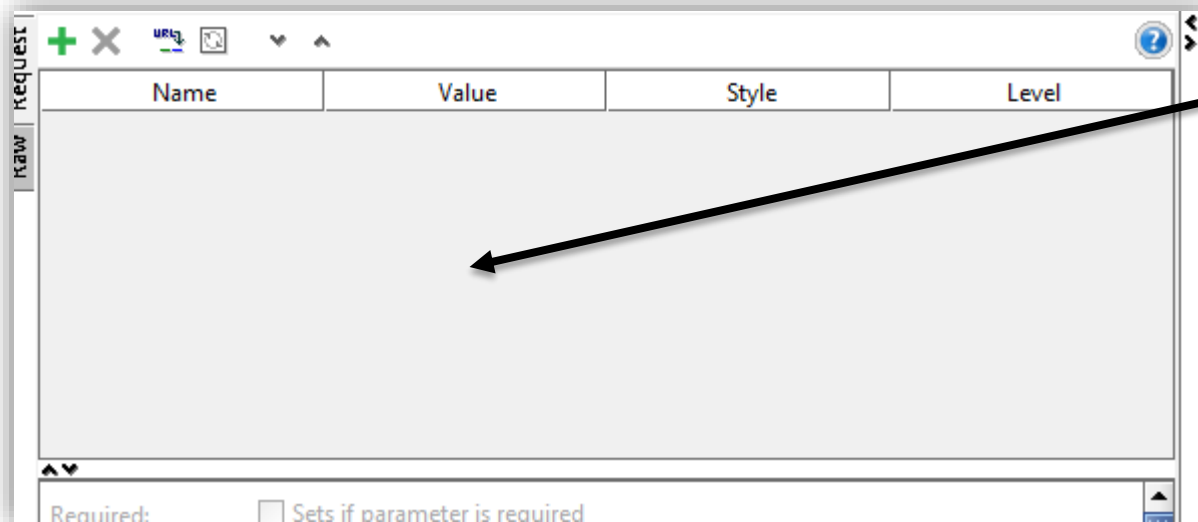
Metoda usługi – adres zasobów

SoapUI – Projekt REST - Zapytania



A screenshot of the SoapUI Parameters dialog box. The title bar is blue with a dotted pattern. The main area has a white background with the word "Parameters" in red text. Below the title, there are two empty text input fields. A black arrow points from the word "Parameter" in the text below to the second input field.

Parameter



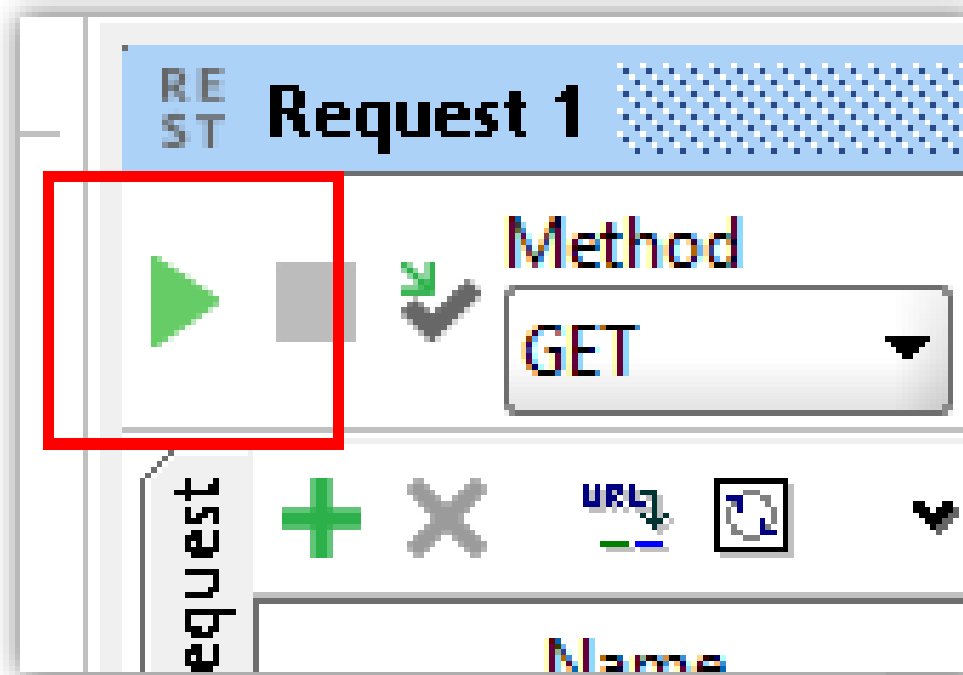
A screenshot of the SoapUI Request Parameters table. The table has four columns: Name, Value, Style, and Level. The table is empty. A black arrow points from the word "Parameter" in the text below to the first row of the table.

Name	Value	Style	Level
------	-------	-------	-------

Required: ☐ Sets if parameter is required

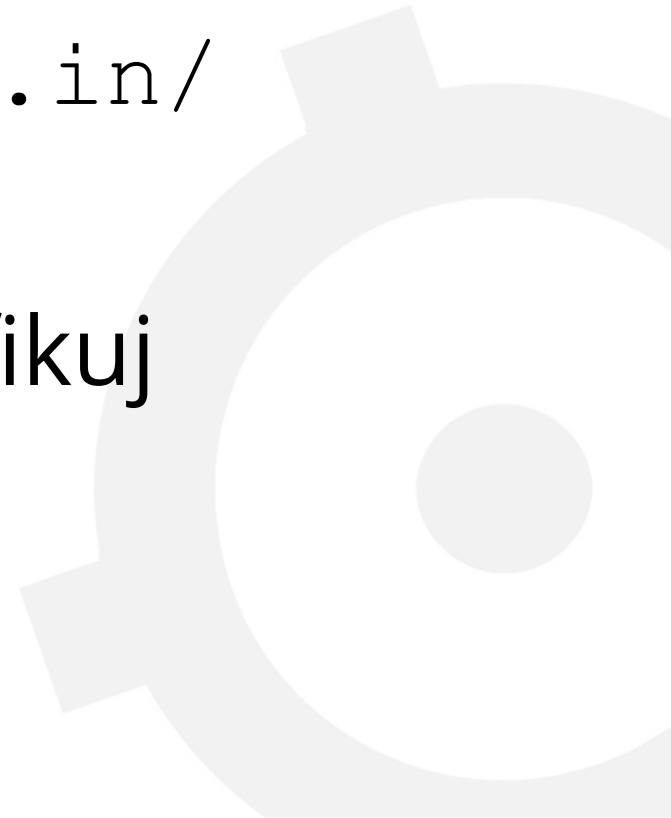
SoapUI – Projekt REST – Zapytania

Wysłanie zapytania



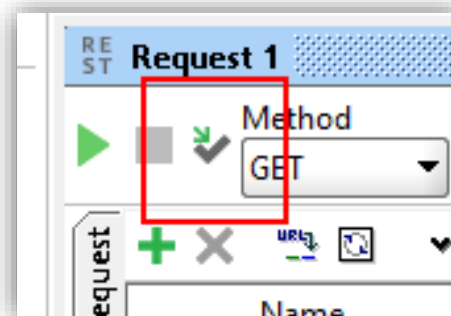
Zadanie

- Utwórz nowy projekt REST
`https://gorest.co.in/`
- Wyślij zapytanie i zweryfikuj
odpowiedź

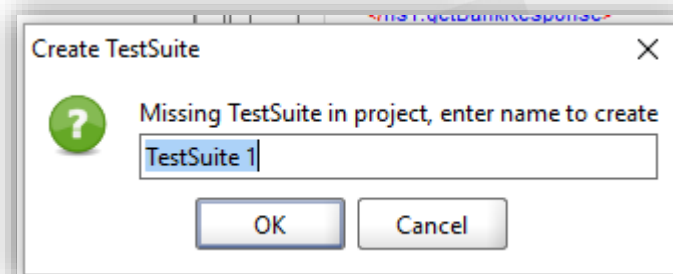


SoapUI - Projekt REST - Test Case

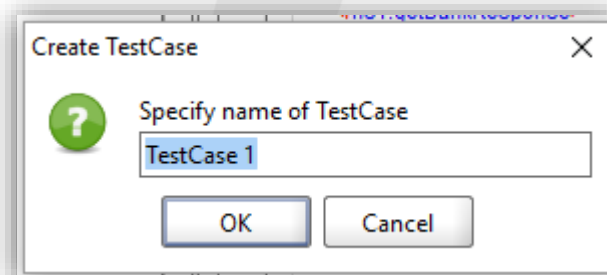
Dodawanie zapytania do Test Case'a



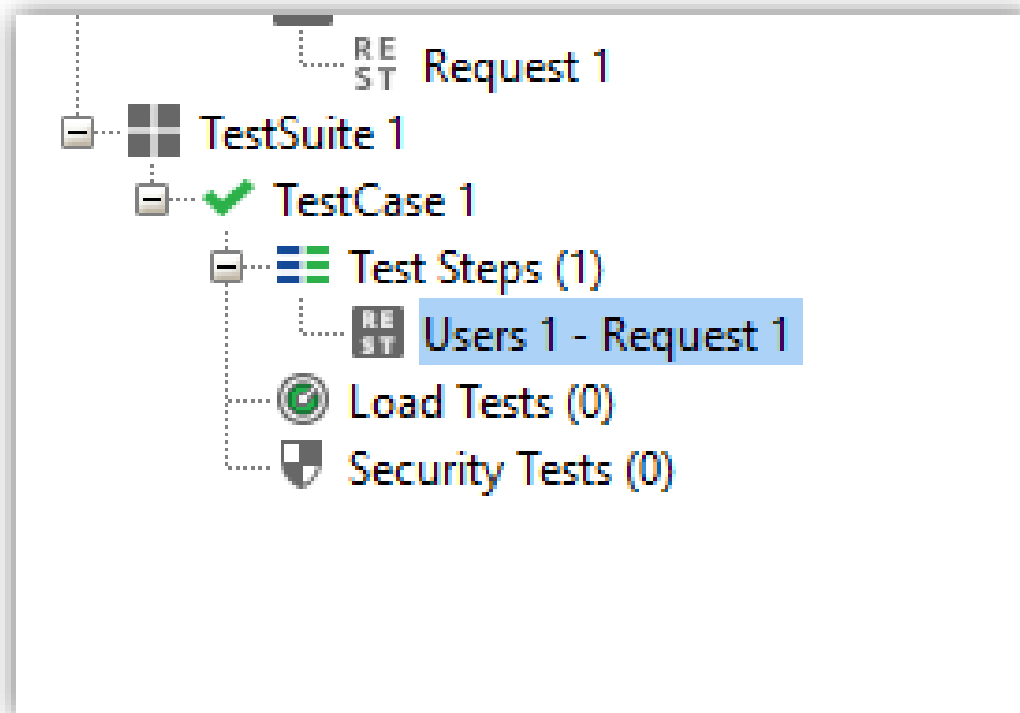
W przypadku gdy nie ma Test Suite'a
jesteśmy poproszeni o jego utworzenie



W przypadku gdy nie ma Test Case'a
jesteśmy poproszeni o jego utworzenie



SoapUI - Projekt REST - Test Case



Zadanie

- Utwórz Test Case i Test Suite



SoapUI - Projekt REST - Asercje

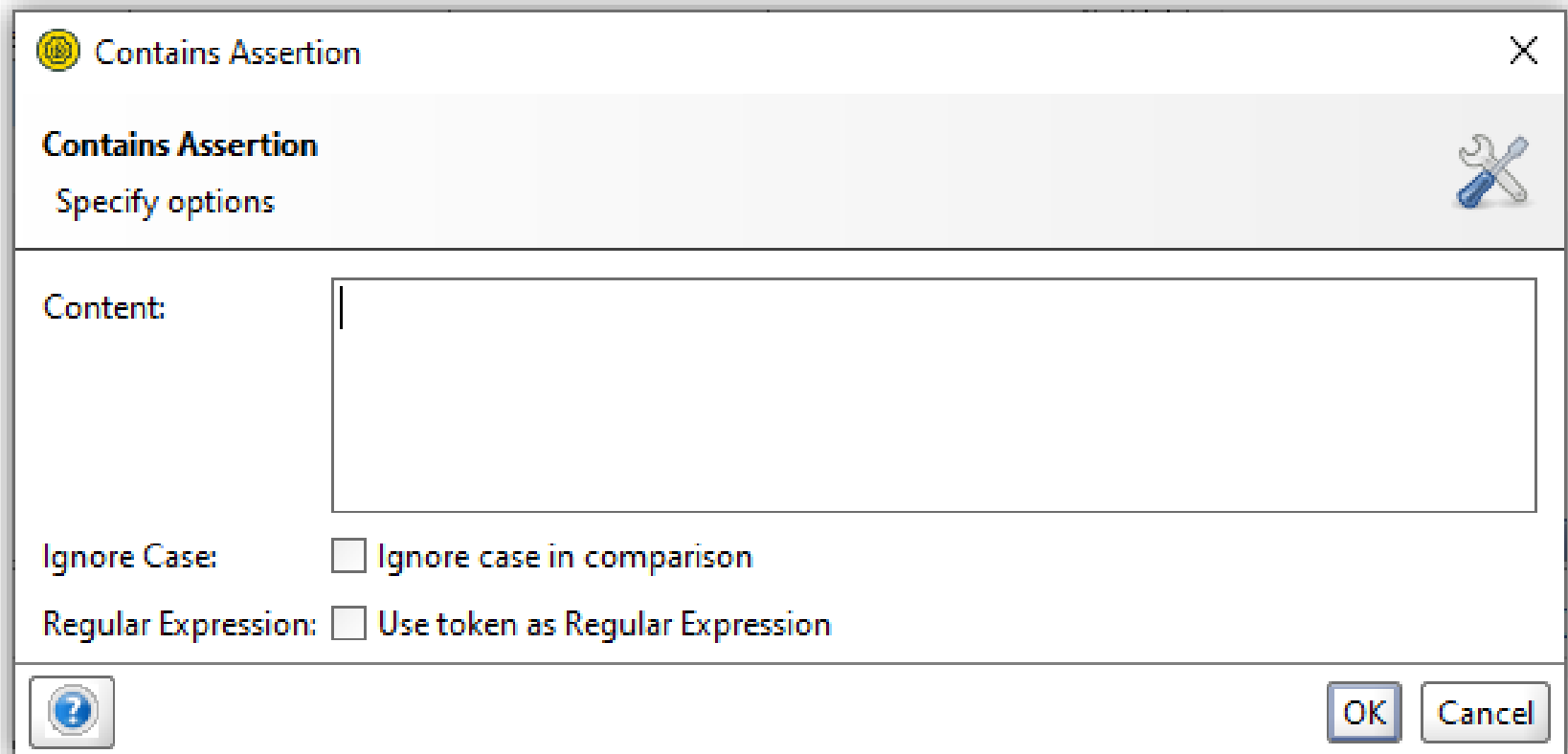
The screenshot displays the SoapUI interface for a REST client. The main window shows a request configuration for the endpoint `https://gorest.co.in` with the method `GET` and the path `/public-api/users?_format=json&access-token=KaieKxYUCuvHAVXH0R8CiMOAbgiPTAD4UOgd]`. A table lists the request parameters:

Name	Value	Style	Level
<code>_format</code>	<code>json</code>	QUERY	RESOURCE
<code>access-token</code>	<code>KaieKxYUCuvHAVX...</code>	QUERY	RESOURCE

Below the table, a large black arrow points to the **Assertions** tab in the bottom-left corner of the main window.

An **Add Assertion** dialog is open in the foreground. It features a list of assertion types on the left, with **Property Content** selected and highlighted by a red box. The right side of the dialog shows the details for the **Contains** assertion, which is also highlighted by a red box. The details include a description: "Searches for the existence of a string token in the property value, supports regular expressions. Applicable to any property." Other assertions listed include **Script**, **SLA**, **JMS**, **JDBC**, and **Security**. At the bottom right of the dialog, the **Add** button is highlighted with a red box.

SoapUI - Projekt REST - Asercje



The image shows a 'Contains Assertion' dialog box in SoapUI. The title bar includes a yellow icon with a magnifying glass and the text 'Contains Assertion'. The main area has a header 'Contains Assertion' with a wrench and screwdriver icon, and a sub-header 'Specify options'. Below this is a 'Content:' label followed by a large empty text area. At the bottom, there are two options: 'Ignore Case:' with a checkbox labeled 'Ignore case in comparison', and 'Regular Expression:' with a checkbox labeled 'Use token as Regular Expression'. The bottom right corner has 'OK' and 'Cancel' buttons, and the bottom left corner has a help icon (a question mark in a circle).

Contains Assertion

Contains Assertion

Specify options

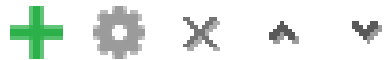
Content:

Ignore Case: ☐ Ignore case in comparison

Regular Expression: ☐ Use token as Regular Expression

OK Cancel

SoapUI - Projekt REST - Asercje



 Contains - VALID



 Contains - FAILED

-> Missing token [some_value] in Response



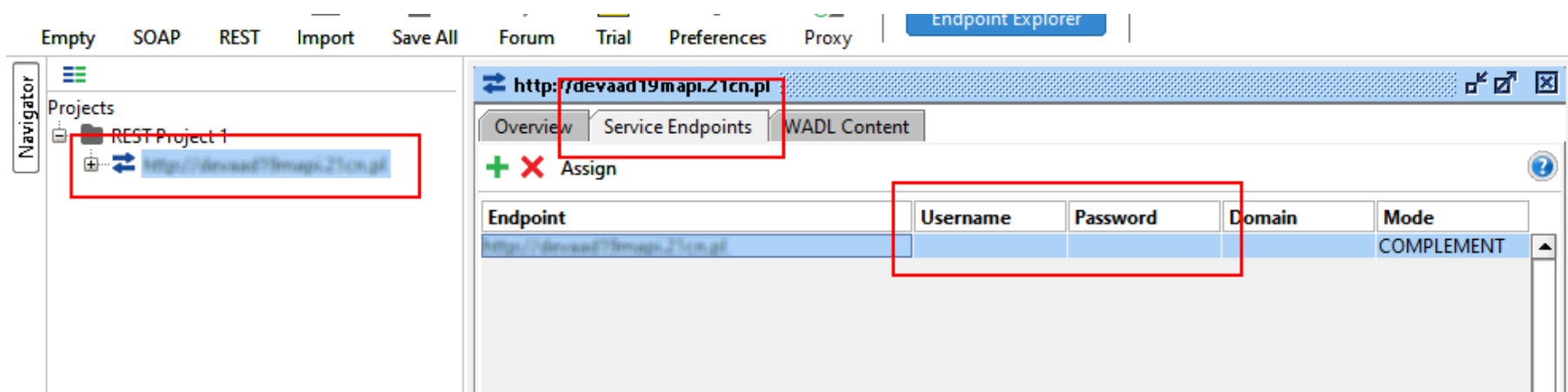
Zadanie

- Dodaj asercję do zapytania
- Wyślij zapytanie i sprawdź wynik asercji



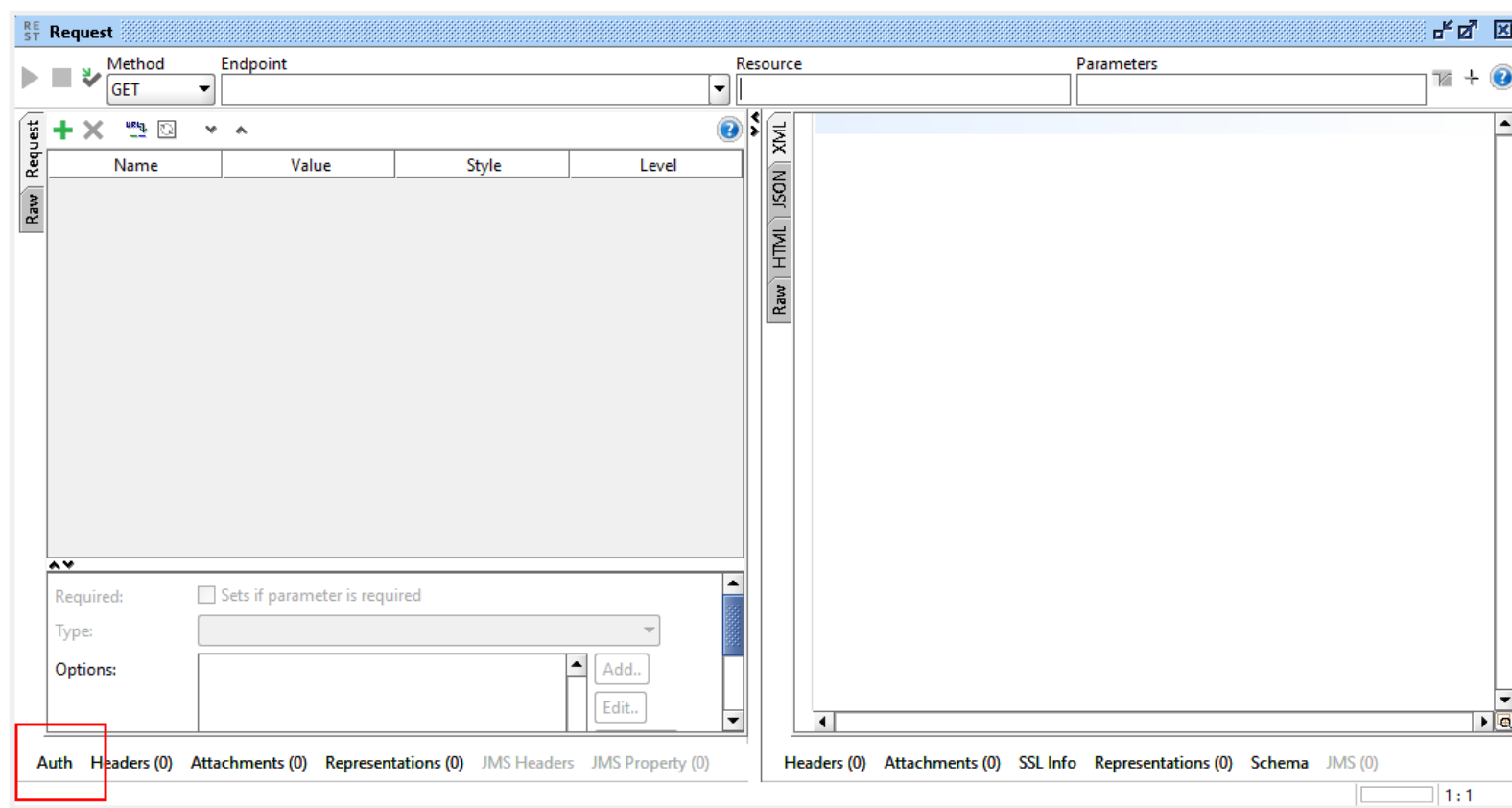
SoapUI – Projekt REST – Autoryzacja

Autoryzacja wszystkich zapytań dla usługi



SoapUI – Projekt REST – Autoryzacja

Autoryzacja zapytań



SoapUI – Projekt REST - Autoryzacja

Autoryzacja zapytań

Authorization: No Authorization

Not Yet Configured
Authorization has not been set for protected services.
Use the *Authorization* drop down to configure.



Add Authorization

Type: Basic

? OK Cancel



Authorization: Basic

Username:

Password:

Domain:

Pre-emptive auth: ☒ Use global preference
☐ Authenticate pre-emptively

Zadanie

- Utwórz nowy projekt
- Dodaj zapytania
- Dodaj autoryzację
- Utwórz Test Case / Test Suite
- Wykonaj testy



Materialy

Testowe usługi:

- <https://gorest.co.in/>
- <http://www.thomas-bayer.com/axis2/services/BLZService?wsdl>
[Usługa dodatkowa] <http://www.thebankcodes.com/>

