22. Write a program to demonstrate XML and XML schema assertions in JMeter

XML and XML Schema Assertions in JMeter

XML Assertions

XML Assertions in JMeter allow you to validate the structure and content of XML responses. You can use XML Assertions to check the following:

XML well-formedness: Checks whether the XML response is well-formed, meaning that it complies with the basic rules of XML syntax.

XML validity: Checks whether the XML response is valid against a specific XML schema.

XML content: Checks whether the XML response contains specific elements, attributes, and values.

To create an XML Assertion in JMeter, follow these steps:

Right-click on the sampler that you want to add the assertion to and select Add > Assertion > XML.

In the XML Assertion properties dialog box, select the type of assertion that you want to perform.

If you are performing a validity check, enter the path to the XML schema that you want to use.

If you are performing a content check, enter the XPath expressions that you want to use to select the elements, attributes, and values that you want to check.

Click OK to create the XML Assertion.
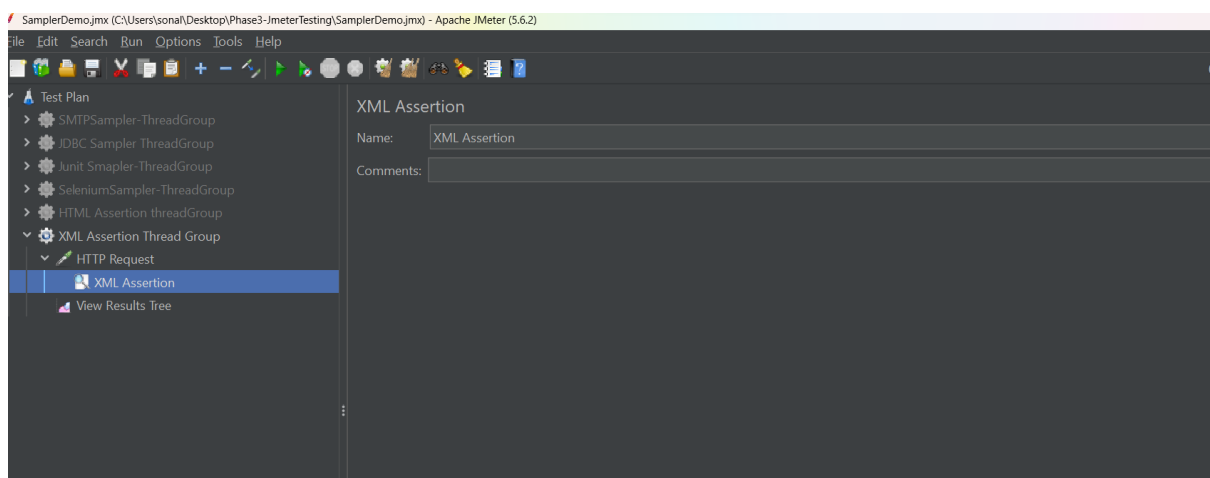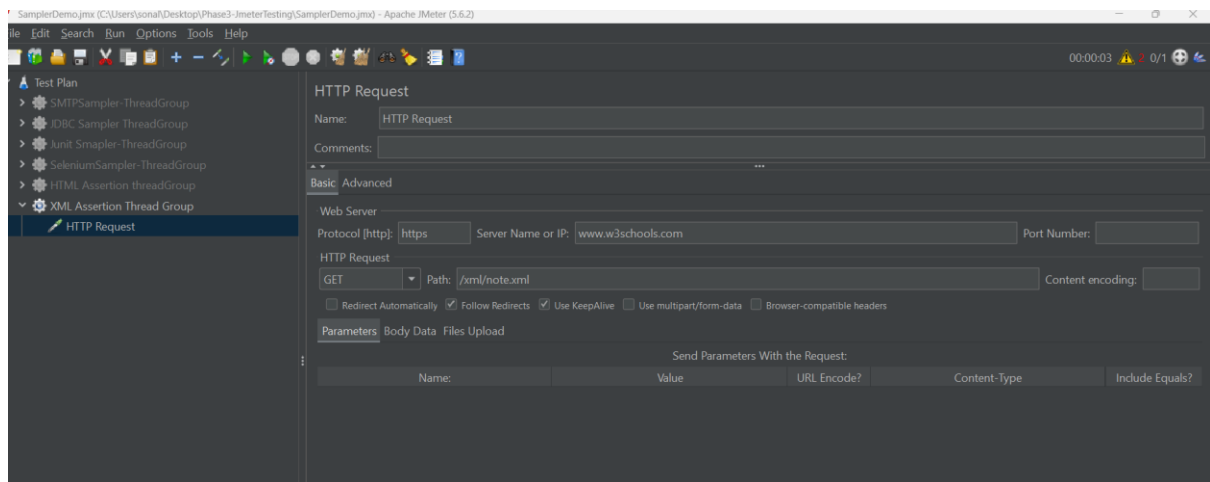
XML Schema Assertions

XML Schema Assertions in JMeter allow you to validate the structure and content of XML responses against a specific XML schema. XML Schema Assertions are more specific than XML Assertions, and they can be used to validate more complex XML structures.

To create an XML Schema Assertion in JMeter, follow these steps:

Right-click on the sampler that you want to add the assertion to and select Add > Assertion > XML Schema.

In the XML Schema Assertion properties dialog box, enter the path to the XML schema that you want to use.

Click OK to create the XML Schema Assertion.

XML schema Assertion

It just check if xml response is having a schema or not

Take you XML file and generate the schema for it:

<note>

Tove

```
<from>Jani</from>

<heading>Reminder</heading>

<body>Don't forget me this weekend!</body>

</note>
```

```xml
<?xml version="1.0" encoding="utf-8"?>

<!-- Created with Liquid Technologies Online Tools 1.0
(https://www.liquid-technologies.com) -->

<xs:schema attributeFormDefault="unqualified"
elementFormDefault="qualified"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="note">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="to" type="xs:string" />
        <xs:element name="from" type="xs:string" />
        <xs:element name="heading" type="xs:string" />
        <xs:element name="body" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```