Testing SOAP Web Services

Software Testing



- Webservices retrospective
- Testing SOAP web services
- Working with XML



- XML format request/response
- WSDL an XML-based language for describing Web services and how to access them
 - WSDL stands for Web Services Description Language
 - WSDL is an XML document
 - WSDL is used to describe Web Services
- Example of WSDL
- Most popular testing tool SoapUI



What is XML?

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- XML stands for eXtensible Markup Language
- XML is a markup language much like HTML
- XML was designed to carry data, not to display data (i.e. meta language)
- XML tags are not predefined. You must define your own tags
- XML is designed to be self-descriptive
- XML is a <u>W3C</u> Recommendation



What is XML used for?

- open standard providing the means to share data and information between computers and computer programs as unambiguously as possible. XML data is stored in plain text format
- XML is used in many aspects of web development
- JavaScript code + external XML file = dynamic data in your HTML document. No need to change HTML every time.
- New Internet languages are created with XML XHTML, WSDL, RSS





```
<?xml version="1.0" encoding="UTF-8"?>
<bre>cbreakfast menu>
    <food>
        <name>Belgian Waffles</name>
        <price>$5.95</price>
        <description>Our famous Belgian Waffles with plenty of real maple
syrup</description>
        <calories>650</calories>
    </food>
    <food>
        <name>Homestyle Breakfast</name>
        <price>$6.95</price>
        <description>Two eggs, bacon or sausage, toast, and our ever-popular hash
browns</description>
        <calories>950</calories>
    </food>
</breakfast_menu>
```





SoapUI

References

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- XML Tutorial
- Web Service tutorial





