

PAF

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Web services and SOAP

difference between website and web application

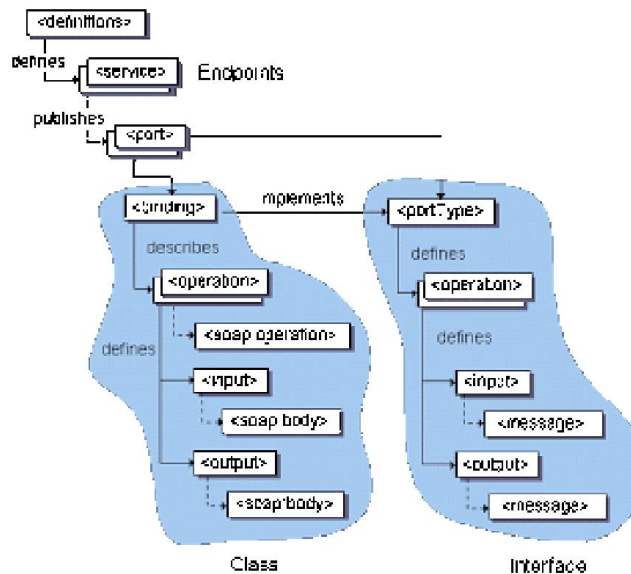
A **web application** or Rich Internet **Applications** is a **web site** that does more than displaying content, it has a business logic. It's intended for user interactions, performing actual business functions. Compared to **web** sites, i.e. blogs and news sites, **web apps** provide a richer user experience

WSDL

WSDL is an XML format for describing network services as a set of endpoints operating on messages containing either document-oriented or procedure-oriented information. The operations and messages are described abstractly and then bound to a concrete network protocol and message format to define an endpoint.

Structure of the WSDL document

WSDL Document Elements. A WSDL document has a definitions element that contains the other five elements, types, message, **portType**, **binding** and service. The following sections describe the features of the generated client code. WSDL supports the XML Schemas specification (XSD) as its type system



Element of WSDL	Description
<types>	Defines the (XML Schema) data types used by the web service
<message>	Defines the data elements for each operation
<portType>	Describes the operations that can be performed and the messages involved.
<binding>	Defines the protocol and data format for each port type

Porttype and operation

For example, a **<portType>** can combine one request and one response message into a single request/response **operation**. This is most commonly used in SOAP services. A **portType** can define multiple **operations**. The **portType** element defines a single **operation**, called sayHello.

Binding VS service

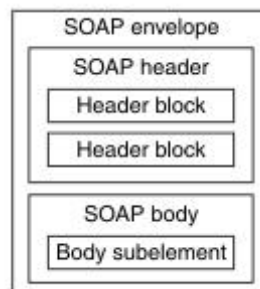
A **Service** that is both **Bound** and **Started** can have methods inside of that can be called by **bound** client components. Since a **Service** doesn't have to be started for a client to **bind** to it, this is something that you must be aware of. This means that a client **binding** to a **Service** will call onCreate()

How SOAP is used with HTTP

All the browsers support **HTTP** for compatibility and its the most widely used Internet Protocol. ... A **SOAP** method is an **HTTP** request/**HTTP** response that complies with the **SOAP** encoding rules. using **SOAP**, a protocol submitted to the W3C data can be enclosed in XML and transmitted using any number of Internet Protocols

Structure of SOAP message

The **structure** of a **SOAP message**. **<Envelope>** is the root element in every **SOAP message**, and contains two child elements, an optional **<Header>** element, and a mandatory **<Body>** element. ... **<Fault>** is a subelement of the **SOAP** body, which is used for reporting errors; see The **SOAP** fault.



MIME header means

Multipurpose Internet Mail Extensions (**MIME**) is an Internet standard that extends the format of email to support: Text in character sets other than ASCII. Non-text attachments: audio, video, images, application programs etc. Message bodies with multiple parts. **Header** information in non-ASCII character sets

The annotations in JAX-WS

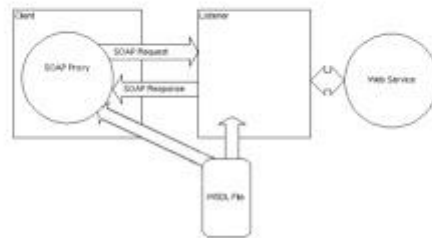
JAX-WS Annotations (JSR 224). Describes the supported **JAX-WS** annotations and their associated properties. The **@Action** **annotation** specifies the **WS-Addressing** action that is associated with a web service operation

how a web service can be tested using different approaches

With TestComplete you create functional **tests** of SOAP **web services**. These **tests** consist of calling **web service methods** and checking the ... TestComplete can **test web services** that match the following specifications: ... If you move your **test project** to **another** computer, remember to copy this file **with other** project files.

SOAP
Simple Object
Access Protocol

1. Use WSDL for description
2. SOAP is approach of protocols and standards
3. Works with operations

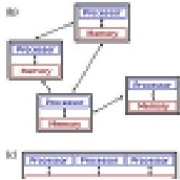


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