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Discussion 3.1

Web 420

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1. **What is SOAP?**

According to guru99, “SOAP was developed as an intermediate language so that applications built on various programming languages could talk easily to each other and avoid the extreme development effort.” SOAP as a messaging mechanism to encode data in an XML wrapper. From reading a bit about SOAP it seems like it a set of specifications which data transfer communications adhere to. The specifications seem to dictate a sort of format for XML requests over HTTP.

1. **What are SOAP envelopes and how are they used?**

SOAP envelopes look like HTML element tags. While they “indicate the start and the end of the message [tutorials point]”, they don’t exactly work like HTML. Envelopes are required to create SOAP messages. The message should both begin and end with an envelope tag and includes a header as well as the body of the message.

1. **What are SOAP data types and how are they defined/used?**

According to Tutorials Point documentation, the two categories of SOAP data types are scalar and compound. Scalar types contain exactly one value such as a last name, price, or product description. Compound types contain multiple values such as a purchase order or a list of stock quotes[tutorialspoint]. Inside the envelop body, a scalar data type can be found for a name for example and the type would be string. Similarly a scalar type can be seen in the body for a price with a type double due to prices having two digits after the decimal.

Reference List

Guru99. “SOAP Web Services Tutorial: What is SOAP Protocol?” Guru99, Accessed 1 April 2021.

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Tutorials Point. “SOAP – Envelope.” Tutorailspoint, Accessed 1 April 2021.

https://www.tutorialspoint.com/soap/soap\_envelope.htm

Tutorials Point. “SOAP – Encoding.” Tutorailspoint, Accessed 1 April 2021.

https://www.tutorialspoint.com/soap/soap\_encoding.htm