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ITWP 2600

Chapter 9 - Module 9 Exercise

SOAP (Simple Object Access Protocol) and REST (Representational State Transfer) are two different ways of building web services. SOAP uses XML or HTML to send messages between two applications. SOAP is known better for being a more structured, complex, and secure system. One advantage of SOAP is its built-in security and error handling. SOAP is typically used for larger applications that require that level of complexity and security. However, due to it being so complex, it also draws more bandwidth usage and can be slower to run.

On the other hand, REST (Representational State Transfer) is an architectural style that is simpler, lighter, and more flexible in its approach. It uses normal HTTP methods like PUT, POST, GET, and DELETE to manage data. REST can use several different formats such as XML, JSON, or even normal plain text. JSON is typically used the most in REST. REST is stateless and therefore doesn't keep request data from previous requests and instead uses each session with a new set of data. An advantage of REST is that it is more flexible and less complex than SOAP, making it faster and easier to use. It is also quite reliable for mobile application use. REST doesn't have the same level of security built in as SOAP does, so developers need to add security on top of it.

Resources

Schneider, Gary P. (2017, 2015). Electronic Commerce (12th ed.). Cengage Learning US.

<https://aws.amazon.com/compare/the-difference-between-soap-rest/>

<https://www.scalecomputing.com/resources/soap-vs-rest-api-comparison-guide>

<https://www.geeksforgeeks.org/websites-apps/difference-between-rest-api-and-soap-api/>