Zahava Gopin

WEB 420: Discussion 2.1

Professor Krasso

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REST

“RESTful web services are loosely coupled, lightweight web services that are particularly well suited for creating APIs for clients spread out across the internet” (n.d, 2017).

“REST or Representational State Transfer is an architectural style that can be applied to web services to create and enhance properties like performance, scalability, and modifiability” (visheshy2ey, 2022).

RESTful web services are used to help create APIs. REST is well liked for many reasons. It helps communication between applications created with different languages or environments. REST helps the transition between desktop and mobile applications. REST also helps applications align with the cloud-based architecture.

RESTful architecture includes many aspects. The first is the division of state and functionality, “State and functionality are divided into distributed resources. This is because every resource has to be accessible via normal HTTP commands” (visheshy2ey, 2022). The second aspect is that RESTful architecture is client/server based. The web browser is the client and the server is the host. “The architecture should also be layered, meaning that there can be intermediate servers between the client and the end server” (visheshy2ey, 2022).

Some things that all RESTful applications have are resource identification. Basically, resources that are identified by URIs to help select client interaction. All applications have a fixed set of operations PUT, GET, POST, and DELETE. “Self-descriptive messages: Resources are decoupled from their representation so that their content can be accessed in a variety of formats, such as HTML, XML, plain text, PDF, JPEG, JSON, and other document formats” (n.d, 2017).

RESTful applications are fast, more compatible with SOAP, don’t rely on one language, and support many data formats.

Resources:

visheshy2ey. (2022, December 22). *RESTful Web Services* [Review of *RESTful Web Services*]. Geeksforgeeks. <https://www.geeksforgeeks.org/restful-web-services/>

*What Are RESTful Web Services?* (n.d.). Javaee.github.io. https://javaee.github.io/tutorial/jaxrs001.html

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