Discussion 2.1 REST

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Representational State Transfer or called REST is an API with the process of the end product in an interface. (Lauret, 2019a) For Example: if your goal was to get student using REST API, its representation will be GET /students/{student\_Id}. “REST APIs are based on the REST architechtural style” (Lauret, 2019a). Which is a process for designing all APIs. (Lauret, 2019a). A basic REST API also needs HTTP protocol to satisfy its requirements. (Lauret, 2019a)

A RESTful web service is based on the REST architecture (*RESTful Web Services Tutorial*, n.d.). RESTful web services are defined “light weight, highly scalable and maintainable” (*RESTful Web Services Tutorial*, n.d.). They’re often used for API creation. There are four basic ideas for RESTful. Resource ID, Uniform interface, self-descriptive messages and stateful interactions (*What Are RESTful Web Services?*, n.d.). Through a URI you need to be able to Identify your resources. Your interface should orderly with the use of GET, PUT, POST, DELETE. The messages you must use while caching, error handling or authentication should be easily described. Lastly all your resources should be stateless. (*What Are RESTful Web Services?*, n.d.).

There is a reason why REST is so common among developers. First it’s a way for web applications ability to use other programming languages and their ability to work with other programming languages and the applications may be on different operating systems like mac or windows. (GeeksforGeeks, 2022) Also it can reduce the work to create different web applications, an example would be creating web applications and regular applications. (GeeksforGeeks, 2022) Lastly more and more web applications are cloud compatible. Cloud works with the REST principle (GeeksforGeeks, 2022).

References:

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