Discussion 4.1 Stateless vs Stateful APIs

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When it comes to creating APIs there are two types of protocols to think about. Stateless or Stateful, they each have their differences and uses depending on what the goals of the API are.

According to geeksforgeeks.org a Stateless Protocol is “in which client send request to the server and server response back according to current state” (GeeksforGeeks, 2023). It doesn’t need the server to save the session info or the status for each request. (GeeksforGeeks, 2023)A stateless protocol makes the design of the server simpler. (GeeksforGeeks, 2023)It will not require as many resources because it doesn’t need to track the communications or session details (GeeksforGeeks, 2023). The packet information can also independently travel with out any other packets. Its considered discrete and not related to any of the communications that follow. (GeeksforGeeks, 2023). According to a journal found on university libraries, “a stateless web resource application programming interface, which may be configured as an endpoint to receiver order requests” while discussing an esample about an e-commerce site. (NewsRX LLC, 2022)

With a Stateful Protocol when the client issues are request to server, it will need some sort of response back, and it doesn’t get a response back it sents the request again (GeeksforGeeks, 2023). Some other items of a stateful protocol are that is better performance for the client than a Stateless because it keeps track of the information about the connection (GeeksforGeeks, 2023). It will require some storage and it does require the state of the server.

References:

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