**Assignment 4.1**

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For this week’s discussion board assignment, research “Angular Observables and Observable Streams” and post an original thread of at least 250 words of your findings.

An Angular observable will make use of observables as an interface that handles a variety of asynchronous operations. (Angular.) A developer can define the custom events such as ones that send the observable data from a child to the parent component. (Angular.) If an HTTP module is used it then uses observables that handle any AJAX requests and responses that are sent from it. (Angular.) Router and Forms modules use observables also to listen and respond to any user input events. (Angular.) So what really does all this mean? Well Observables provide support for data sharing between publishers and subscribers in an Angular application. (Geeksforgeeks.) Its said that it’s a improved method for handling asynchronous programming and also with handling multiple values. (Geeksforgeeks.)

An observable stream is a Collection that arrives over time. The stream is pull-based. The data-consumer decides when it will get any data from the data-producer. (Sassi, R.) The producer is unaware of when the data will then be delivered to the end consumer. (Sassi, R.) However, this only will work with synchronous things. (Sassi, R.) Another way to look at a Stream is that its is a sequence of data values over time. This can range from a simple increment of numbers printed in 6 seconds or even coordinated that printed over time. Theses streams can be as simple as (1,2,3,4,5, 6). However these streams can also be more complex JSON representation. These all represent data values that will all be collected over time that is why they are called streams. (Goodman, C. ) As you can tell both observables and observable streams are pretty similar to each other but also different in there own way.

Bibliography

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Sassi, R. (2020, June 15). What Are The Differences Between Promises, Observables, and Streams? Retrieved October 04, 2020, from https://levelup.gitconnected.com/promise-vs-observable-vs-stream-165a310e886f