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WEB 425 Angular with TypeScript

July 13, 2023

Discussion 8.1 WebSockets

WebSockets is a communication protocol that allows real-time, two-way communication between a client (usually a web browser) and a server. It is generally used for applications that require instant updates or live data streams. Angular 2+ is a popular JavaScript framework used for building web applications, and it provides support for the use of WebSockets.

To look at it simply, WebSockets should be thought of as a conversation over the phone between the client and the server. What normally happens, when you visit a website, is that the browser sends a request to the server and then waits for the response (Wojciechowski, 2016). When using WebSockets, it is actually like using an open line of communication where both separate parties can interact and listen at any time. While using WebSockets, the connections stays open, which allows the server to be able to send data to the browser whenever new information becomes available (Wojciechowski, 2016). This helps eliminate the need for the browser to send continuous requests, which in turn reduces the delay and also improves efficiency. An Angular 2+ application can utilize the WebSockets by using the WebSocket API which is provided by the browser (Wojciechowski, 2016). Angular provides this WebSocket service that can be used to establish a WebSocket connection from the application to the server. With this, incoming messages from the server can be listened for and then handled accordingly. By utilizing WebSockets in Angular, dynamic and responsive applications can be created that can display real-time updates without the need for constant refreshing of web pages. It allows the application to have features like real-time notifications, collaborative editing, live chats, and more, which provide a seamless user experience (Wojciechowski, 2016).

In short, WebSockets in Angular 2+ allow the user to establish a strong connection between the client and the server, which allows real-time communication and instant updates in the web applications (Wojciechowski, 2016). It helps with instant data exchange and helps build responsive, interactive applications.

Reference

Wojciechowski, L. (2016, September 2). *WebSockets with ANGULAR2 and RxJS*. Medium. https://medium.com/@lwojciechowski/websockets-with-angular2-and-rxjs-8b6c5be02fac