**WEBSOCKETS**

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**Real-Time Web Apps** also cater to industries such as the stock market, chat messaging, news segment, political sector, statistics and other types of sources & urgent notifications in a much more efficient way.

1. **AJAX Polling**
2. **AJAX Long Polling**
3. **Forever Frame**
4. **HTML5 Server sent events(SSE)**
5. **HTML5 Websockets**

The **web socket protocol allows continuous** **two way communication between a client(web browser) and a server.This method of communications allows a server to push information to the client without the client having to do a request every time.** It is an improvement of the old method of repeatedly pinging a server for information, by reducing the push to the client to only happen when an appropriate change occurs. In the .Net ecosystem the process of setting up a web server to handle serving the website and acting as a websocket server is made easier with the middleware of the asp.net core platform.

<https://handsonjones.com/2020/02/websockets-minigame-with-angular-and-asp-net-core/>

* We will create a asp.net core web api project and set it up to server a SPA application
* We will create an angular web project
* We will use asp.net core’s Websocket middleware to create a websocket endpoint for our application
* We will create a service class that will act as a singleton that will handle all connected users and the information related to them, This class will also be responsible for handling all websocket requests and responses.
* We will modify our angular site to contain a service that will create the websocket connection and handle all messages to and from the server.
* We will update the default app componetn(home page) to use the websocket service class to create a very simple game of colored squares that will change color when a user click them.

