



What is the difference between web sockets, long polling, server-sent events and forever frame?

Ask Question

I'm currently exploring SignalR, this technology supports transports (web wockets, long polling ,server-sent events and forever frame).

I have understood the terminology web sockets and long polling. But what is Server-Sent Events and Forever Frame?

How all four differ from each other?



Information on all the transport types can be found in the Introduction to SignalR document at asp.net/signalr/overview/getting-started/... – davidfowl Oct 7 '13 at 16:35 🖋

By using our site, you acknowledge that you have read and understand our Cookie Policy, Privacy Policy, and our Terms of Service.

1 Answer

Transports and fallbacks of SignalR:

WebSocket Full-duplex

Websocket is a full-duplex communication channels over a single TCP connection. When both server and browser support, it is the **only transport that establishes a true persistent**, **two-way connection** between client and server.

Server Sent Events Simplex

also known as EventSource is a technology where a **browser** receives automatic updates from a server via HTTP connection. The Server-Sent Events EventSource API is standardized as part of HTML5 by the W3C.

Forever Frame One request -> One infinite response

Forever Frame creates a **hidden IFrame** which makes a request to an endpoint on the server **that does not complete**. The server then continually sends script to the client which is immediately executed, providing a one-way realtime connection from server to client. The connection from client to server uses a separate connection from the server to client connection, and like a standard HTTP request, a new connection is created for each piece of data that needs to be sent.

Ajax long polling (One Request -> One Response [but delayed]) repeated

Long polling does not create a persistent connection, but instead polls the server with a **request that stays open until the server responds**, at which point the connection closes, and a new connection is requested immediately. This may introduce some latency while the connection resets

By using our site, you acknowledge that you have read and understand our Cookie Policy, Privacy Policy, and our Terms of Service.

https://docs.microsoft.com/enus/aspnet/signalr/overview/getting-started/introduction-to-signalr https://en.wikipedia.org/wiki/Server-sent_events

edited Aug 17 '17 at 7:12

answered Aug 4 '17 at 15:28



Matthieu Charbonnier **1,432** 14 18

By using our site, you acknowledge that you have read and understand our Cookie Policy, Privacy Policy, and our Terms of Service.