What is the difference between web sockets, long polling, serversent events and forever frame?

Asked 7 years, 6 months ago Active 3 years, 8 months ago Viewed 12k times



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?



websocket signalr long-polling server-sent-events

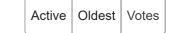
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Information on all the transport types can be found in the Introduction to SignalR document at asp.net/signalr/overview/getting-started/... – davidfowl Oct 7 '13 at 16:35 💉

1 Answer





Transports and fallbacks of SignalR:

19 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.



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.

More info:

Follow

https://docs.microsoft.com/en-us/aspnet/signalr/overview/getting-started/introduction-tosignalr https://en.wikipedia.org/wiki/Server-sent events

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edited Aug 17 '17 at 7:12

answered Aug 4 '17 at 15:28



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