HTML5 Server Sent Events

Server-Sent Events

HTML5 Server-Sent Events allow us to update the web page from a web server.

Examples: Facebook updates, stock price updates, news feeds, cricket/election results, etc.

```
<!DOCTYPE html>
<html>
<body>
  <h1>Getting Server Updates</h1>
  <div id="result"></div>
  <script>
    if(typeof (EventSource) != "undefined") {
      var source = new EventSource("demo.asp");
      source.onmessage = function (event) {
        document.getElementById("result").innerHTML += event.data + "<br/>br>
      };
    }
    else {
      document.getElementById("result").innerHTML = "Sorry, your browser does not support server-sent
events...";
    }
  </script>
</body>
</html>
```

Code Explained:

- Create a new EventSource object, and specify the URL of the page sending the updates (in this example "demo.asp")
- 2. Each time an update is received, the onmessage event occurs
- 3. When an onmessage event occurs, put the received data into the element with id="result"

Demo.asp

```
Response.ContentType = "text/event-stream"

Response.Expires = -1

Response.Write("retry:1000" & vbcrlf)

Response.Write("data: " & now() & vbcrlf & vbcrlf)
```

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Response.Flush()



Code explained:

- 1. Set the "Content-Type" header to "text/event-stream"
- 2. Specify that the page should not cache
- 3. Output the data to send (Always start with "data:")
- 4. Flush the output data back to the web page

Example 2: Using JSON and Custom messages:

CustomEventDemo.html

```
<!DOCTYPE html>
<html>
<body>
 <h1>Getting server updates</h1>
 <div id="result"></div>
 <script>
   var source = new EventSource("CustomEventDemo.asp");
   source.addEventListener('message', function (e) {
      var data = JSON.parse(e.data);
      document.getElementById("result").innerHTML += data.msg + "<br>";
    }, false);
    source.addEventListener('userlogon', function (e) {
      var data = JSON.parse(e.data);
      document.getElementById("result").innerHTML += 'User login:' + data.username + "<br>';
    }, false);
    source.addEventListener('update', function (e) {
      var data = JSON.parse(e.data);
      document.getElementById("result").innerHTML += data.username + ' is now ' + data.emotion + "<hr>";
    }, false);
 </script>
</body>
</html>
```

CustomEventDemo.asp:

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Response.ContentType = "text/event-stream"

Response.Expires = -1

Response.Write("retry:5000" & vbcrlf)



data: {"msg": "First message"}

event: userlogon

data: {"username": "Sandeep"}

event: update

data: {"username": "Sandeep", "emotion": "happy"}

Note: New lines are required after every event and its data...