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POC: User Session Invalidation on Web Browser Window or Tab Close

Requirements

The requirements are the following:

- The session management feature shall terminate (invalidate) the user backend session whenever the user closes the last web browser window or tab of the application **without explicitly logging out**.
- If the user opens the page again using URL, bookmark, or history in the browser, he/she should be redirected to the login screen. So, the user cannot re-open any page of the application without the Login procedure.

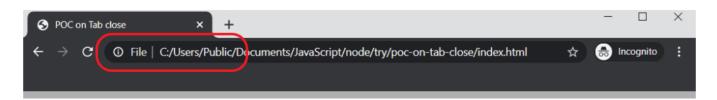
Solution

- Register JavaScript event handler for "close tab/window" JavaScript event (beforeunload)
- When the event intercepted, call server-side Logout API
 - o Do not call Logout API if the user already explicitly signed out
 - Count opened tabs to call Logout API only when the last web browser window or tab of the application is closed

POC steps to reproduce

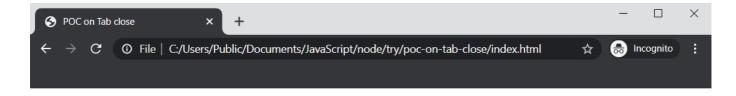
1. Open index.html Page in a Web Browser

Open the index.html page in your web browser directly from the file system. You do not need any web service backend.



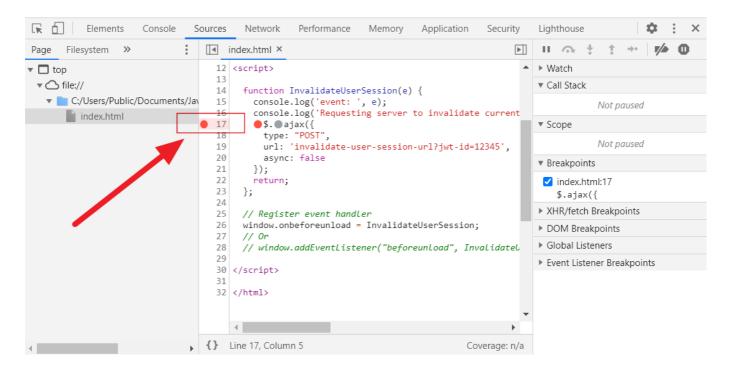
2. Put a breakpoint

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Hello 'onbeforeunload' Event!

The 'onbeforeunload' event occurs when the document is about to be unloaded.

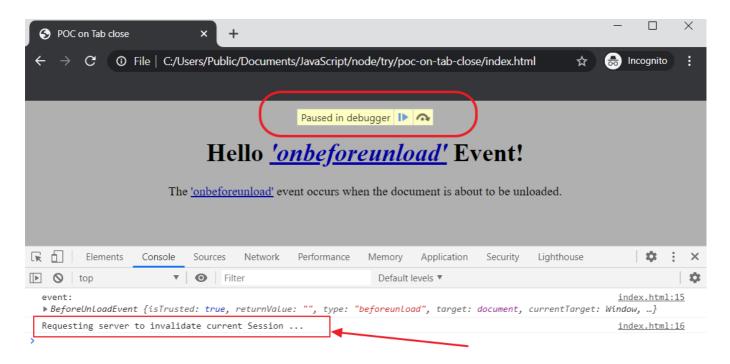


- 3. Close the Web Browser Window or Tab
- 4. The event beforeunload is intercepted

```
12 <script>
                                     13
                                     14
                                           function InvalidateUserSession(e) { e = BeforeUnloadEvent {isTrusted: true,
                                             console.log('event: ', e);
console.log('Requesting server to invalidate current Session
                                     15
                                     16
                                             $. ajax({
                                               type: "POST",
url: 'invalidate-user-session-url'
                                     18
                                     19
                                     20
                                                async: false
                                     21
                                             });
                                   {} Line 17, Column 5 Coverage: n/a
                 What's New
      Console
|
                                                            Default levels
  event: ▶ BeforeUnloadEvent {isTrusted: true,
                                                      returnValue:
                                                                         type: "beforeunload", target: document, currentTar
   Requesting server to invalidate current Session .
```

4. The Running Script is Paused in Debugger

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5. Resume Script Execution to Finally Close the Web Browser Window or Tab

