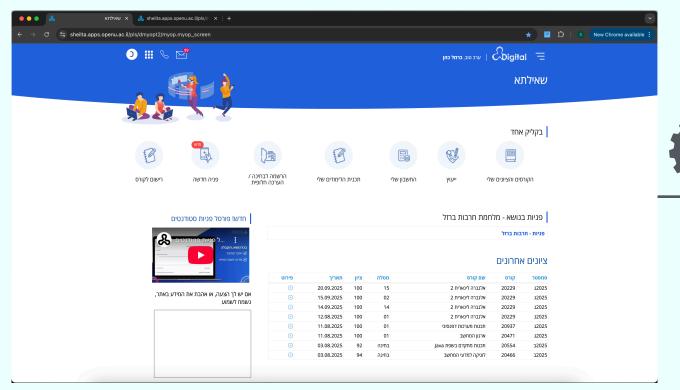
Sheilta KeepAlive Ext.

Enough worrying about refreshing

The Problem

30 minutes is not enough...

- Sheilta logs out after 30 minutes of inactivity
- Frustrating when watching videos on another domain → Sheilta tabs expire
- Motivation: automate session keeping without manual refresh

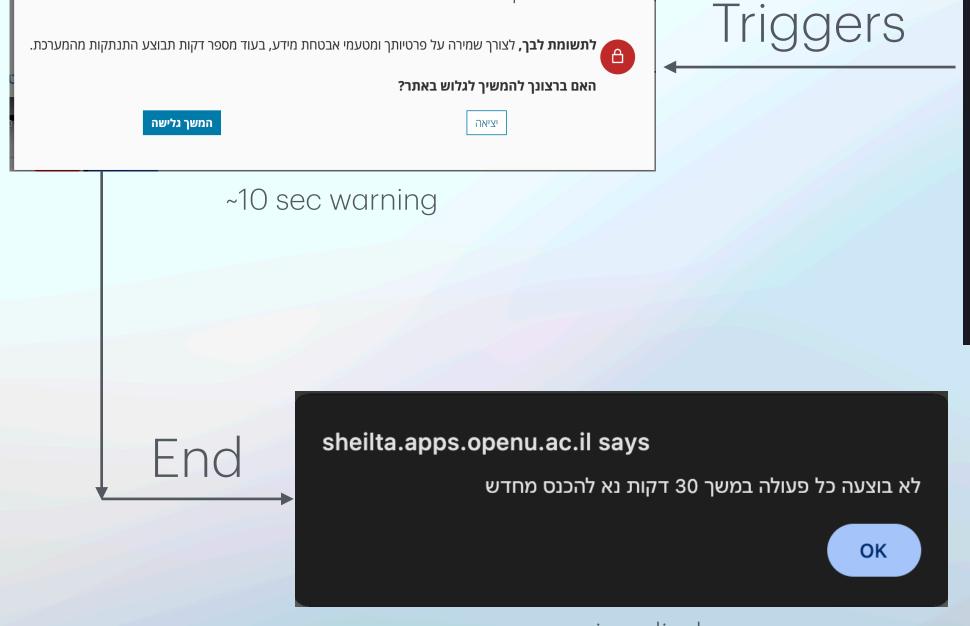


sheilta main page



Loads on client

session-guard-1.0.js



התראה לפני ניתוק מהמערכת

session died

Investigation Process

Curiosity kicks in..

- Explored login/logout flow
 - Login → session-guard-1.0.js loaded
 - Logout → different APIs for Sheilta vs course tabs
- Session-guard-1.0.js revealed
 - checkUrl → returns session TTL (seconds)
 - refreshUrl → resets session cookie
 - logoutUrl → forces logout

```
var refresh = function () {
   if (logoutTimeoutId) {
      clearTimeout(logoutTimeoutId);
      logoutTimeoutId = false;
   }
   requestUrl(_this.refreshUrl, checkCallback);
};

var logout = function () {
   if (_this.logoutUrl) {
      top.window.location.href = _this.logoutUrl;
   }
};
```

```
התראה לפני ניתוק מהמערכת לתשומת לבך, לצורך שמירה על פרטיותך ומטעמי אבטחת מידע, בעוד מספר דקות תבוצע התנתקות מהמערכת.

האם ברצונך להמשיך לגלוש באתר?

המשך גלישה
```

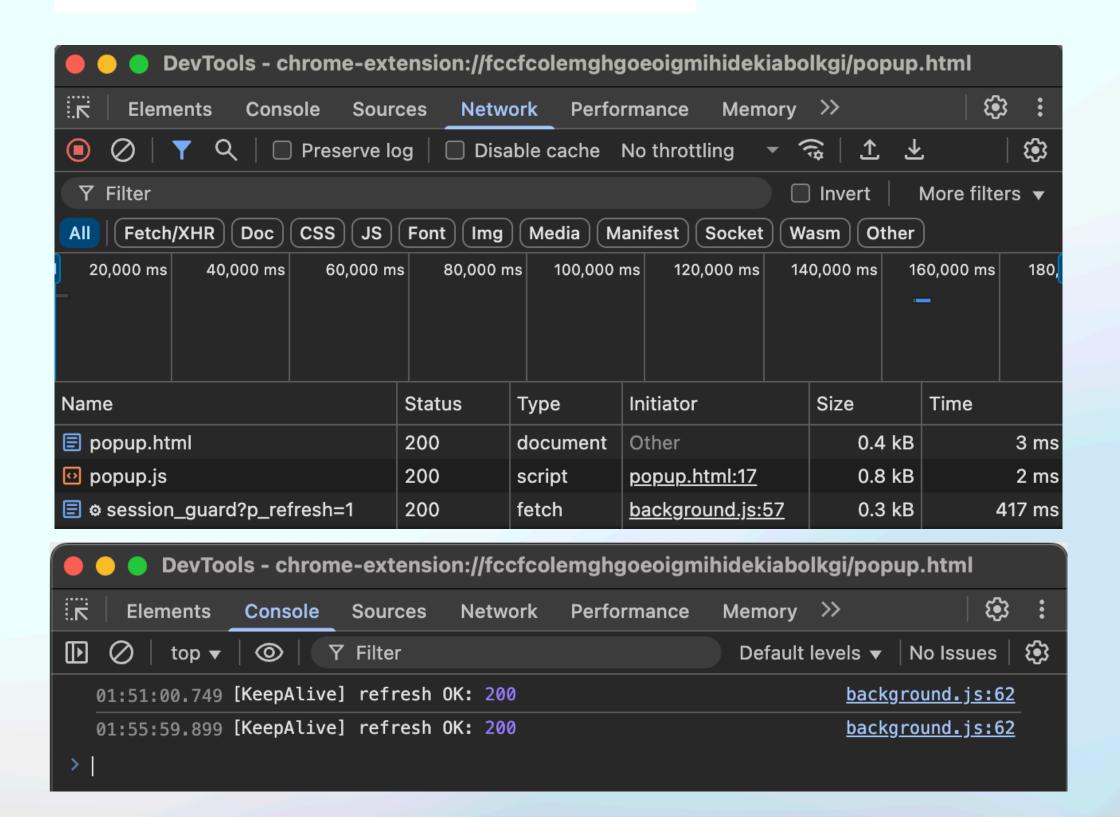
```
function requestUrl(url, callback) {
 if ($) {
   $.ajax(url, {
     method: "POST",
     success: callback,
     error: function (error) {
       callback(null);
     xhrFields: { withCredentials: true },
   else {
   var xmlhttp = new XMLHttpRequest();
   xmlhttp.withCredentials = true;
   xmlhttp.onreadystatechange = function () {
     if (xmlhttp.readyState == 4) {
       if (xmlhttp.status == 200) {
         callback(xmlhttp.responseText);
       } else {
         callback(null);
   xmlhttp.open("POST", url, true);
   xmlhttp.send();
```

Solution Design Chrome loves extensions...

- Runs quietly in background
- Periodically calls refreshUrl
- Key features:
 - Toggleable On/Off
 - Configureable interval
 - Smart check → only if Sheilta tab
 open

Sheilta Keepalive

Keepalive Enabled



Code Walkthrough

Enough with the talking...

- Alarm setup → triggers every X minutes
- Tab detection → verifies Sheilta tab exists
- Keepalive fetch → calls refreshUrl with cookies

```
const KEEPALIVE_INTERVAL_MINUTES = 5; // 0.2 for testing
const SHEILTA_REFRESH_URL =
   "https://sheilta.apps.openu.ac.il/pls/dmyopt2/session_guard?p_refresh=1";

let keepaliveEnabled = true;

chrome.storage.local.get(
   { enabled: true },
   (d) => (keepaliveEnabled = d.enabled)
);
```

```
chrome.alarms.onAlarm.addListener((alarm) => {
 if (alarm.name !== "sheiltaKeepAlive") return;
 if (!keepaliveEnabled) {
   console.log("[KeepAlive] Disabled. Skip.");
   return;
 hasSheiltaTab((has) => {
   if (!has) {
     console.log("[KeepAlive] No Sheilta tab. Skip.");
     return;
   fetch(SHEILTA_REFRESH_URL, {
     method: "GET",
     credentials: "include",
     .then((res) => {
       if (res.ok) console.log("[KeepAlive] refresh OK:", res.status);
       else console.warn("[KeepAlive] refresh non-0K:", res.status);
     .catch((err) => console.error("[KeepAlive] refresh error:", err));
 });
```

LET'S DEMOTHIS

https://sheilta.apps.openu.ac.il/pls/dmyopt2/myop.myop_screen