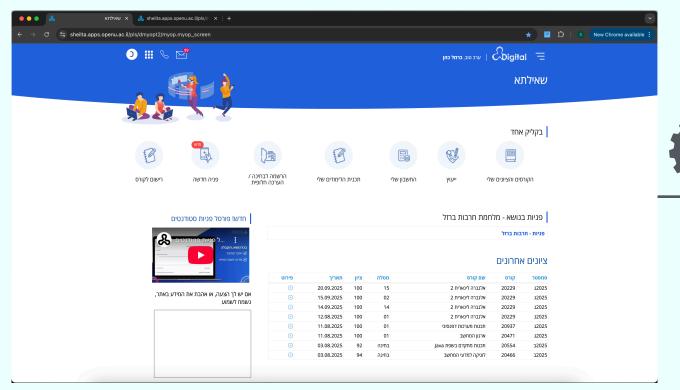
# Sheilta KeepAlive Ext.

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

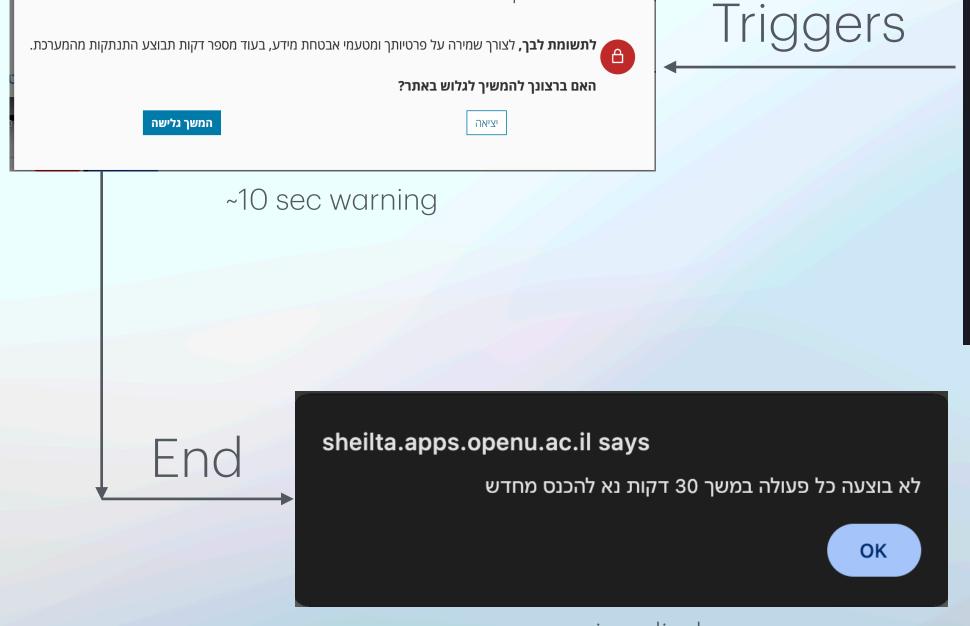


sheilta main page



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.

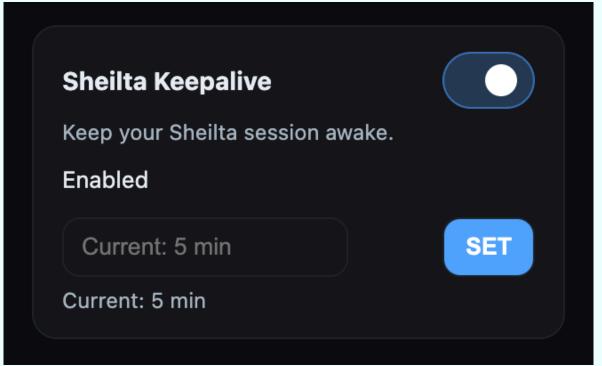
האם ברצונך להמשיך לגלוש באתר?

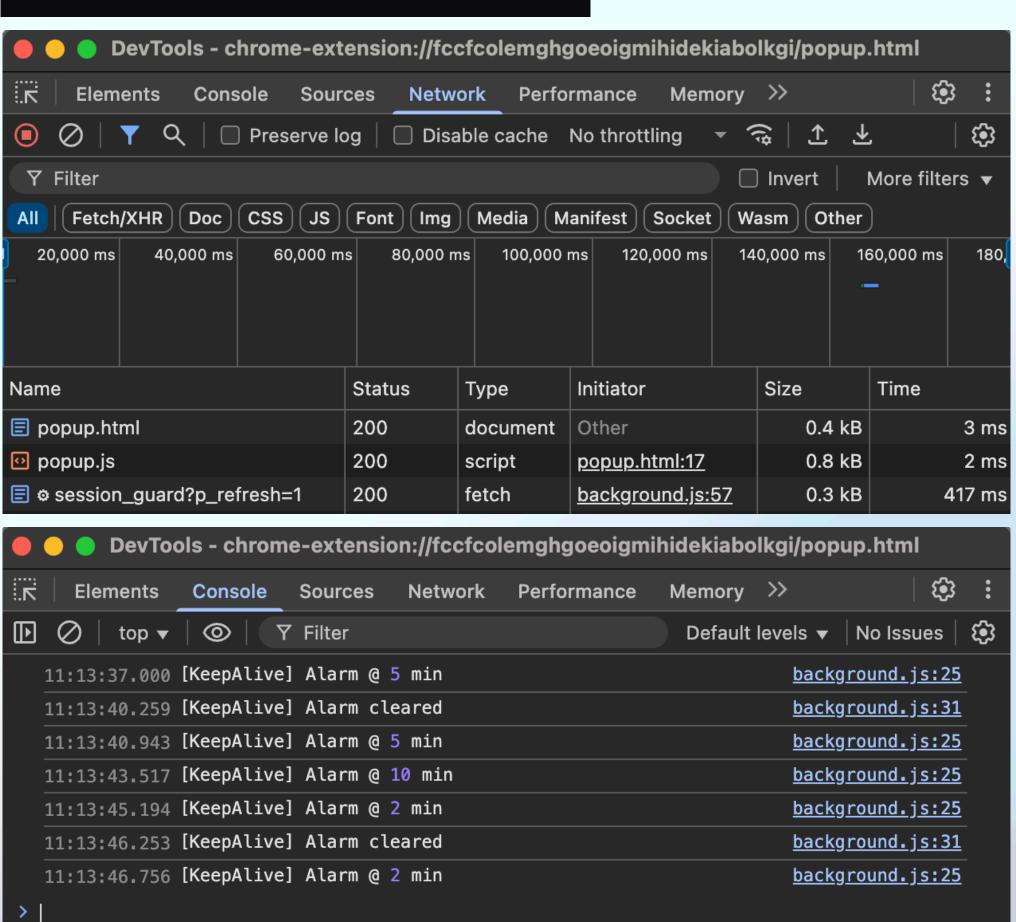
המשך גלישה
```

```
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





### 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 ALARM_NAME = "sheiltaKeepAlive";
const SHEILTA_REFRESH_URL =
   "https://sheilta.apps.openu.ac.il/pls/dmyopt2/session_guard?p_refresh=1";

let enabled = true;
let intervalMin = 5;

chrome.storage.local.get(
   { sheiltaEnabled: enabled, sheiltaIntervalMin: intervalMin },
   ({ sheiltaEnabled, sheiltaIntervalMin }) => {
    enabled = !!sheiltaEnabled;
    intervalMin = Number(sheiltaIntervalMin) || intervalMin;
    applyEnabledState(enabled);
   }
}:
```

```
function startAlarm() {
 chrome.alarms.clear(ALARM_NAME, () => {
   chrome.alarms.create(ALARM_NAME, { periodInMinutes: intervalMin });
   console.log("[KeepAlive] Alarm @", intervalMin, "min");
         function stopAlarm(): void
function stopAlarm() {
 chrome.alarms.clear(ALARM_NAME, () => {
   console.log("[KeepAlive] Alarm cleared");
chrome.runtime.onInstalled.addListener(() => applyEnabledState(enabled))
chrome.runtime.onStartup.addListener(() => applyEnabledState(enabled));
function hasSheiltaTab(cb) {
  chrome.tabs.query({}, (tabs) => {
       tabs.some((t) =>
         /^https:\/\/sheilta\.apps\.openu\.ac\.il/i.test(t.url || "")
  });
```

## LET'S DEMOTHIS

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