

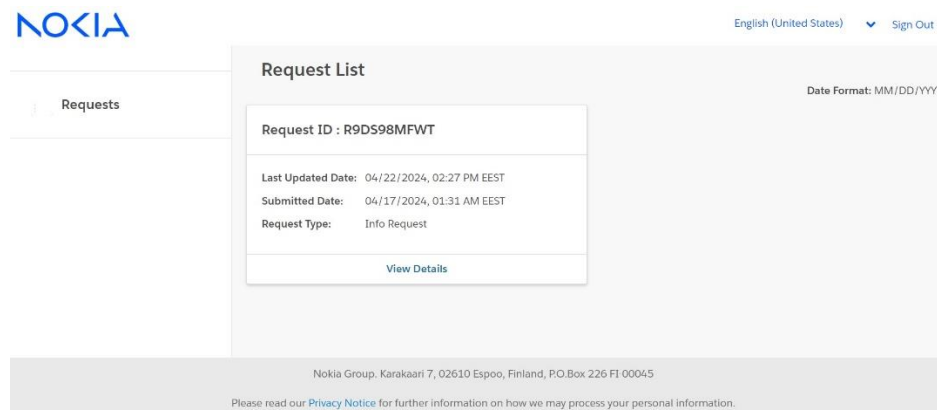
### Task 1: GDPR Data Request

1. Which company did you choose to request your data from and how long did it take to submit that information?

Nokia

Five (05) days,

<https://privacyportal-de.onetrust.com/webform/cd70c674-0ad8-4c06-be84-6fe0ce4c4579/05ba3cd9-e29a-40b2-a80f-ab43b0978a6a?>

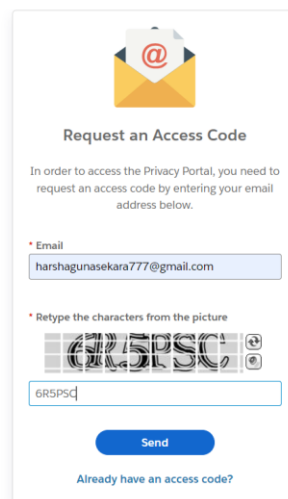


The screenshot shows the Nokia Privacy Portal interface. At the top left is the Nokia logo. On the right, there's a language selector set to 'English (United States)' and a 'Sign Out' link. A sidebar on the left has a 'Requests' tab. The main content area is titled 'Request List' and shows a table with one request. The request details are: Request ID: R9DS98MFWT, Last Updated Date: 04/22/2024, 02:27 PM EEST, Submitted Date: 04/17/2024, 01:31 AM EEST, and Request Type: Info Request. Below the table is a 'View Details' button. At the bottom, there's a footer with the Nokia Group address and a link to the Privacy Notice.

Request ID	Last Updated Date	Submitted Date	Request Type
R9DS98MFWT	04/22/2024, 02:27 PM EEST	04/17/2024, 01:31 AM EEST	Info Request

2. In what format did you receive your data and how many pages/bytes of it were there?  
After authenticating few security steps, I accessed their portal, and they replied through the web portal.

Nokia



The screenshot shows the 'Request an Access Code' page. It features an email icon at the top. The text explains that an access code is needed to access the Privacy Portal. There are two input fields: one for 'Email' (harshagunasekara777@gmail.com) and another for 'Retype the characters from the picture' (6R5PSC). A 'Send' button is at the bottom, and a link 'Already have an access code?' is at the very bottom.

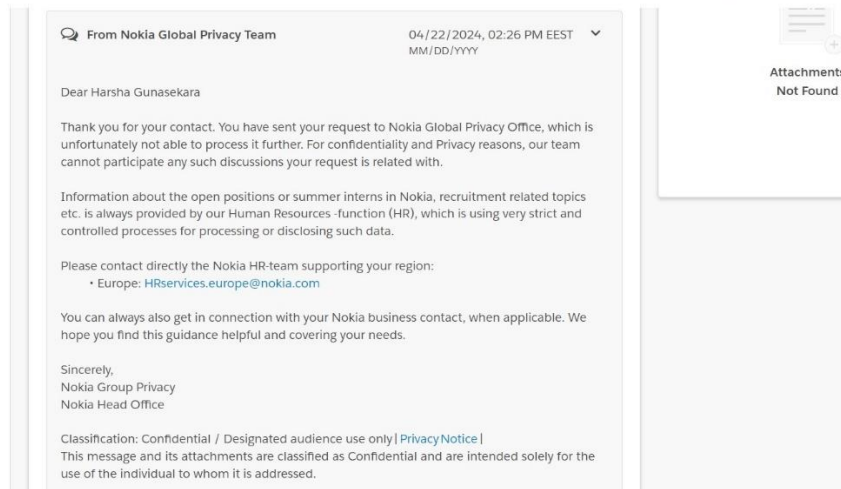
Email: harshagunasekara777@gmail.com

Retype the characters from the picture: 6R5PSC

Send

[Already have an access code?](#)

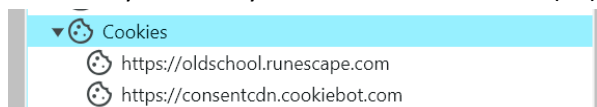
3. What kind of information was there that you had not directly given yourself?  
They say they are unable to proceed with my request. Please contact [HRservices.europe@nokia.com](mailto:HRservices.europe@nokia.com).



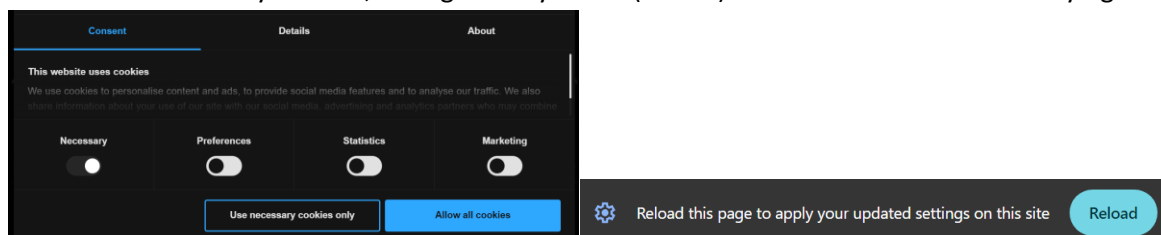
4. Did you understand the meaning of the information?  
Since they have not responded to my request, I am unable to attend.
5. Do you think that the company collected the least amount of data required to provide the service you needed?  
Since they have not responded to my request, I am unable to attend.
6. Were you surprised about something, what?  
I was expecting a fair enough response from them, but I was actually surprised when they did not give me the requested information.

## Task 2: Cookie Raid

1. How many necessary cookies are there? Two (02)



2. What happens if you try to disable necessary cookies?  
Can disable necessary cookies, but again they asked (reload) consent for cookies when trying to log.



3. List at least 6 different expiry times from the necessary cookies?

2024-07-16T18:19:02.495Z  
2025-05-22T18:18:59.999Z  
2025-05-22T18:19:02.495Z  
2024-07-16T18:19:02.495Z  
2024-07-16T18:19:02.495Z  
2025-05-22T18:18:59.999Z

Expires / Max-Age
2024-07-16T18:19:02.49...
2025-05-22T18:18:59.99...
2025-05-22T18:19:02.49...
2024-07-16T18:19:02.49...
2024-07-16T18:19:02.49...
2025-05-22T18:18:59.99...

4. List 3 different cookie types from necessary cookies?

JXTRCKING  
JXWEBUID  
XANDR\_PANID  
anj  
uuid2

5. In Statistics, what are the expiry time and cookie type of JXWEBUID?

Expiry time - 2025-05-22T18:18:59.999Z  
Cookie type - necessary cookies

6. In Statistics and Marketing, what other Apps or Companies are listed, other than JAGEX?

Amazon Advertising  
Amazon Advertising  
Google Analytics  
Adobe Analytics  
HubSpot  
Shopify

### Task 3: Browser Fingerprinting

A)

1. Return two categories and results where you had the highest and lowest amount of identifying bits of information?

TIME ZONE OFFSET

-180

Bits of identifying information: 4.59

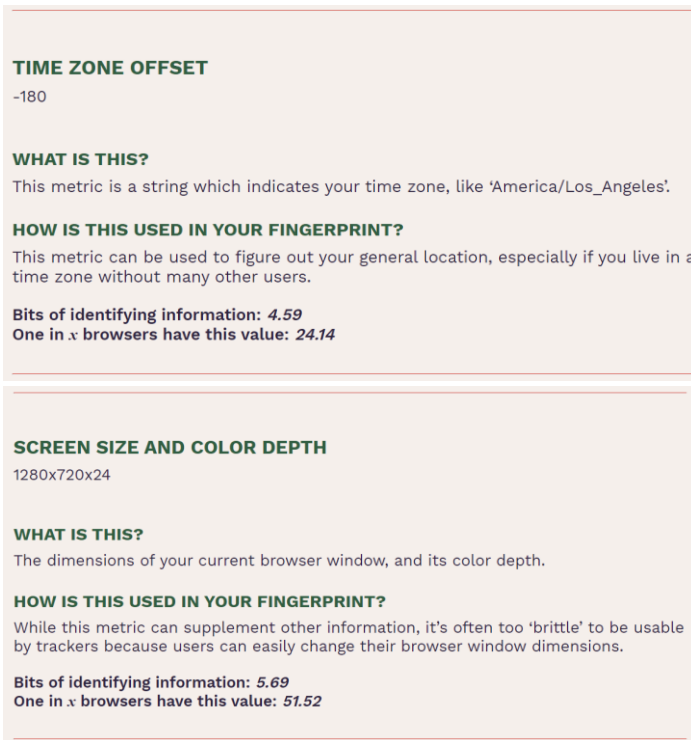
One in x browsers have this value: 24.14

SCREEN SIZE AND COLOR DEPTH

1280x720x24

Bits of identifying information: 5.69

One in x browsers have this value: 51.52



The screenshot displays two sections of browser fingerprinting data. The first section, titled 'TIME ZONE OFFSET', shows a value of -180, 4.59 bits of identifying information, and a frequency of 24.14. The second section, titled 'SCREEN SIZE AND COLOR DEPTH', shows a value of 1280x720x24, 5.69 bits of identifying information, and a frequency of 51.52. Each section includes a 'WHAT IS THIS?' and 'HOW IS THIS USED IN YOUR FINGERPRINT?' explanation.

**TIME ZONE OFFSET**  
-180

**WHAT IS THIS?**  
This metric is a string which indicates your time zone, like 'America/Los\_Angeles'.

**HOW IS THIS USED IN YOUR FINGERPRINT?**  
This metric can be used to figure out your general location, especially if you live in a time zone without many other users.

Bits of identifying information: 4.59  
One in x browsers have this value: 24.14

**SCREEN SIZE AND COLOR DEPTH**  
1280x720x24

**WHAT IS THIS?**  
The dimensions of your current browser window, and its color depth.

**HOW IS THIS USED IN YOUR FINGERPRINT?**  
While this metric can supplement other information, it's often too 'brittle' to be usable by trackers because users can easily change their browser window dimensions.

Bits of identifying information: 5.69  
One in x browsers have this value: 51.52

2. Why does identifiability matter?

An additional step in protecting privacy can be identified through analyzing how easily identifiable something is or whether trackers are currently blocked. The smartest trackers are able to get past even the strongest protection, but the majority can be blocked by browser add-ons or built-in defenses. Recommend installing a browser with built-in fingerprinting prevention or a tracker blocker like Privacy Badger.

3. What pros and cons can you think of to being unique vs common?

Being Unique	
Pros:	Cons:
Differentiation	Misunderstanding
Creative Expression	Isolation
Innovation	Resistance
Attractiveness	Risk of Failure
Personal Fulfillment	Limited Appeal

Being Common	
Pros:	Cons:
Acceptance	Lack of Differentiation
Predictability	Creative Stagnation
Stability	Limited Growth
Market Appeal and Reduced Risk	Missed Opportunities

B)

Return similarity percentage and explanations of your results for:

1. Canvas + WebGL Data?

Canvas - 0.02 %

Rendering of a particular image using the HTML5 Canvas feature that complies with specific instructions. The image displays a few minor but noticeable variations based on the operating system and browser being used.

WebGL Data - 0.46 %

Rendering of a specific image using the WebGL API and the HTML5 Canvas feature complies with specific instructions. Depending on the operating system and browser being used, the image displays some little but noticeable variations.

2. Screen width, Screen height?

Screen width 1280 - 12.27 %

Returns the width of the screen

Screen height 720 - 10.96 %

Returns the height of the screen in pixels

3. Screen available width, Screen available height, Can you explain your result?

Screen available Height 680 - 0.66 %

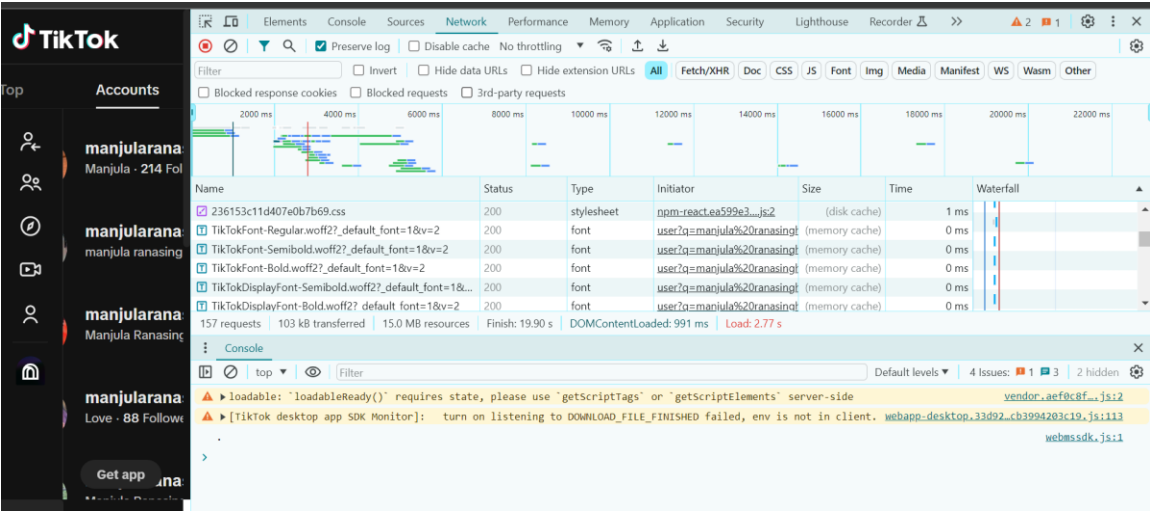
Indicates the screen's height in pixels, less any operating system-displayed permanent or semi-permanent user interface features, like Windows' Taskbar.

Screen available width 1280 - 12.20 %

Provides returned the window's available horizontal space in pixels.

Task 4: TikTok Challenge

A) Captured traffic presents the following workflow:



The user attempts to search with the specific keyword:

Browser -  
Mozilla/5.0 Chrome/124.0.0.0 Safari/537.36

Operating system -  
Windows NT 10.0

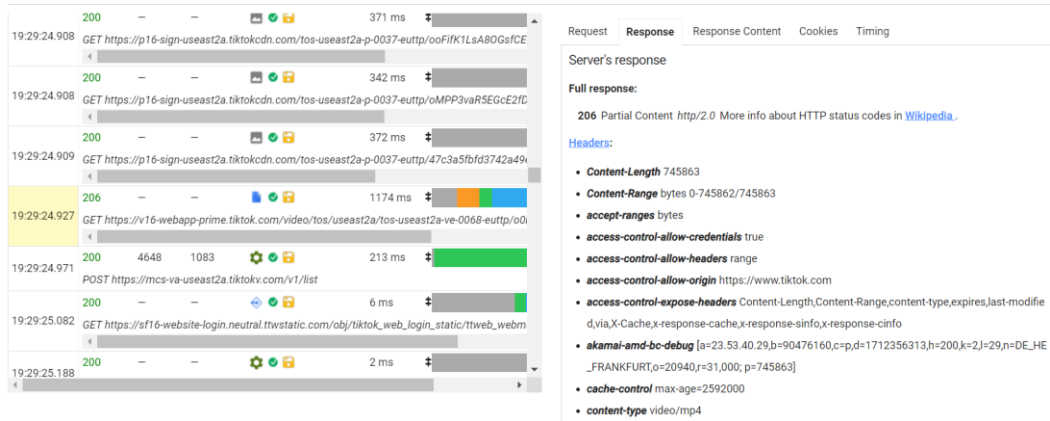
Screen size -  
1920x1080

Local language -  
FI

Browser language -  
en-US

Region -  
FI

Time zone -  
Mon, 22 Apr 2024 19:29:25 GMT



While a user interacts with the TikTok application, various processes are usually used to transfer information to TikTok's servers, including browser language, region, and time zone. Here is where to find and how to send these information such as User-Agent Header, Accept-Language Header, Geolocation Services, Time Zone Information, and Client-Side Scripts. TikTok's data collection practices are subject to its privacy policy and applicable regulations. Users should review TikTok's privacy policy to understand how their information is collected, used, and shared by the platform.

B)

Make a minimal working cURL command to get the user information, and return the command and user information in JSON format. What are mandatory parameters for command to work? Do you have any idea what they mean?

```
curl -X GET \
  'https://www.tiktok.com/api/user/detail/?username=pellesecurity' \
  -H 'User-Agent: Your_User_Agent_String' \
  -H 'Accept: application/json' \
  -H 'Authorization: Your_Authorization_Token' \
  -H 'Content-Type: application/json'
```

-X GET: Specifies that the request method is a GET request.

'https://www.tiktok.com/api/user/detail/?username=pellesecurity':

The URL of TikTok's API endpoint for retrieving user information. We include the parameter `username=pellesecurity` to specify the user we want to retrieve information about.

-H 'User-Agent: Your\_User\_Agent\_String': The User-Agent header specifies information about the client making the request. You should replace 'Your\_User\_Agent\_String' with an appropriate User-Agent string, such as the one used by your web browser.

-H 'Accept: application/json': Specifies that the client accepts JSON-formatted responses from the server.

-H 'Authorization: Your\_Authorization\_Token': If the TikTok API requires authorization, you need to include an Authorization header with a valid token. You should replace 'Your\_Authorization\_Token' with the actual authorization token provided by TikTok's API.

-H 'Content-Type: application/json': Specifies that the request body (if any) is in JSON format.