

CLOD2007-Associate Cloud Engineering

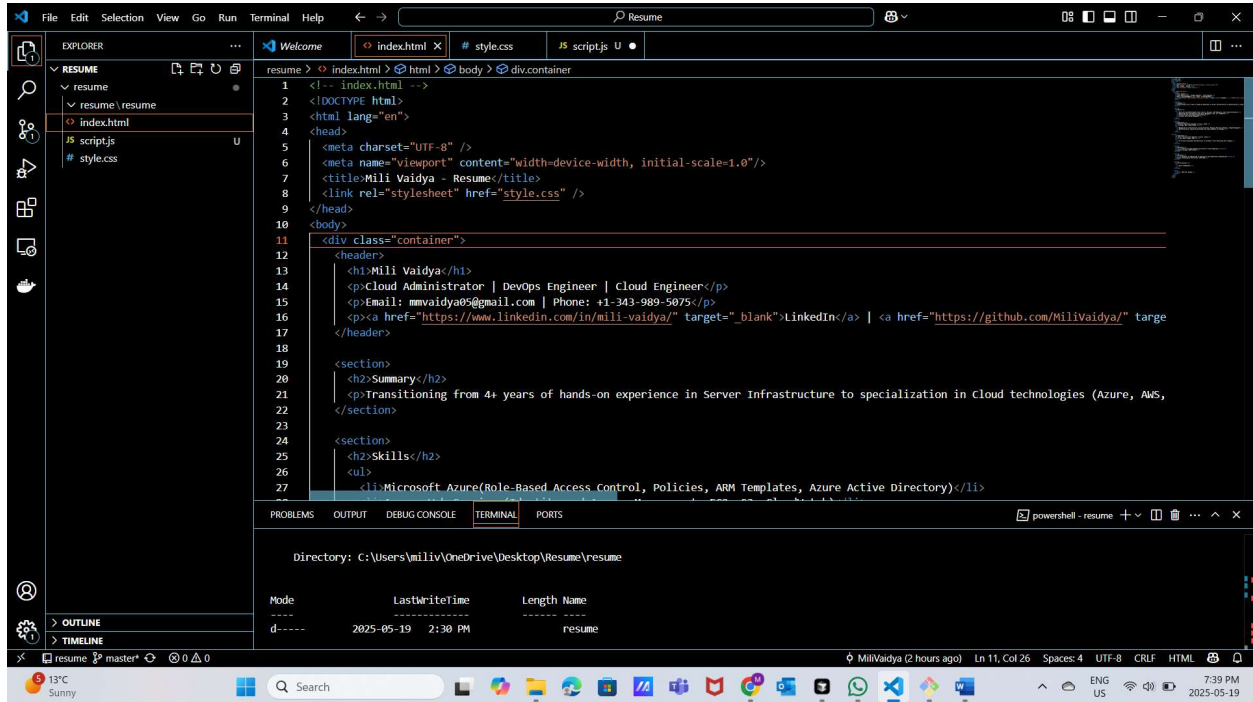
Deloy your personal website to the cloud

In-class Assignment 1

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Below Image shows the basic layout of the HTML Structure.

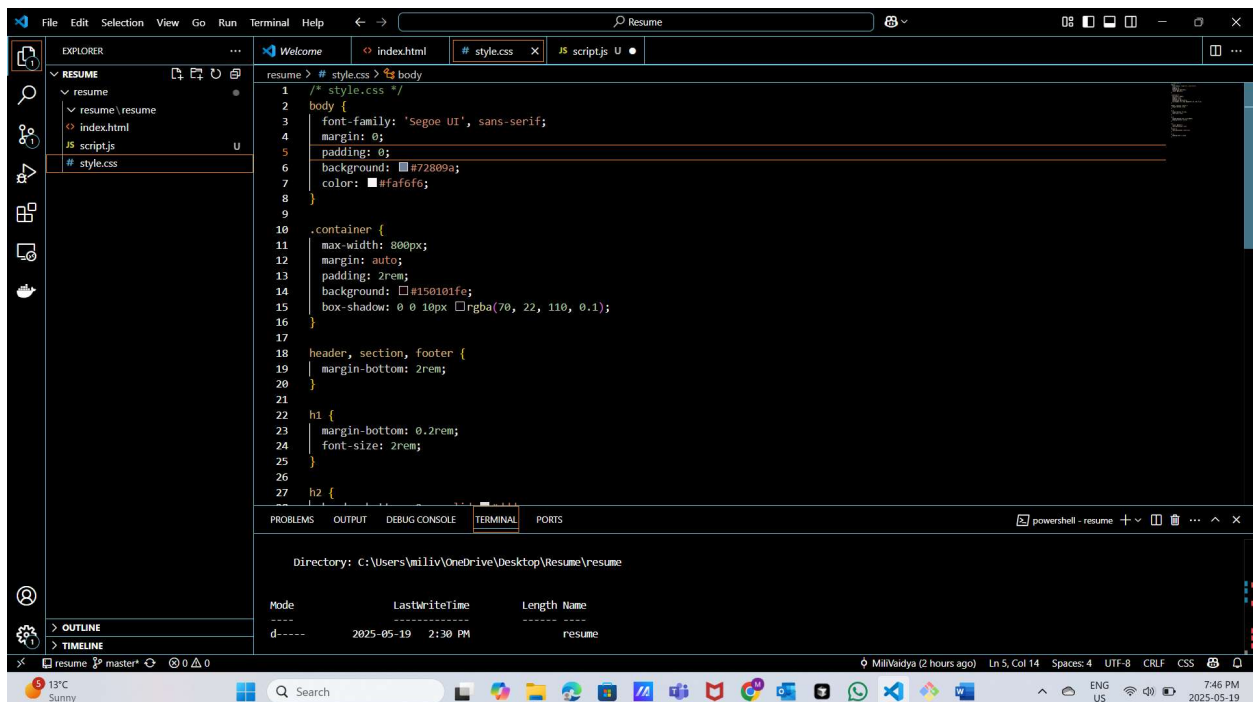


The screenshot shows the Visual Studio Code editor with a project named 'Resume'. The Explorer panel on the left shows the file structure: 'resume' (folder), 'resume/resume' (folder), 'index.html', 'script.js', and 'style.css'. The main editor area displays the 'index.html' file. The HTML structure is as follows:

```
1 <!-- index.html -->
2 <!DOCTYPE html>
3 <html lang="en">
4 <head>
5   <meta charset="UTF-8" />
6   <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
7   <title>Mili Vaidya - Resume</title>
8   <link rel="stylesheet" href="style.css" />
9 </head>
10 <body>
11   <div class="container">
12     <header>
13       <h1>Mili Vaidya</h1>
14       <p>Cloud Administrator | DevOps Engineer | Cloud Engineer</p>
15       <p>Email: mmvaidya05@gmail.com | Phone: +1-343-989-5075</p>
16       <p><a href="https://www.linkedin.com/in/mili-vaidya/" target="_blank">LinkedIn</a> | <a href="https://github.com/MiliVaidya/" target="_blank">GitHub</a></p>
17     </header>
18     <section>
19       <h2>Summary</h2>
20       <p>Transitioning from 4+ years of hands-on experience in Server Infrastructure to specialization in Cloud technologies (Azure, AWS, GCP).</p>
21     </section>
22     <section>
23       <h2>Skills</h2>
24       <ul>
25         <li>Microsoft Azure (Role-Based Access Control, Policies, ARM Templates, Azure Active Directory)</li>
26       </ul>
27     </section>
28   </div>
29 </body>
30 </html>
```

The bottom panel shows the 'TERMINAL' output, displaying the directory path 'C:\Users\mili\OneDrive\Desktop\Resume\resume' and a file listing for 'resume'.

Below Image shows the style of the website.

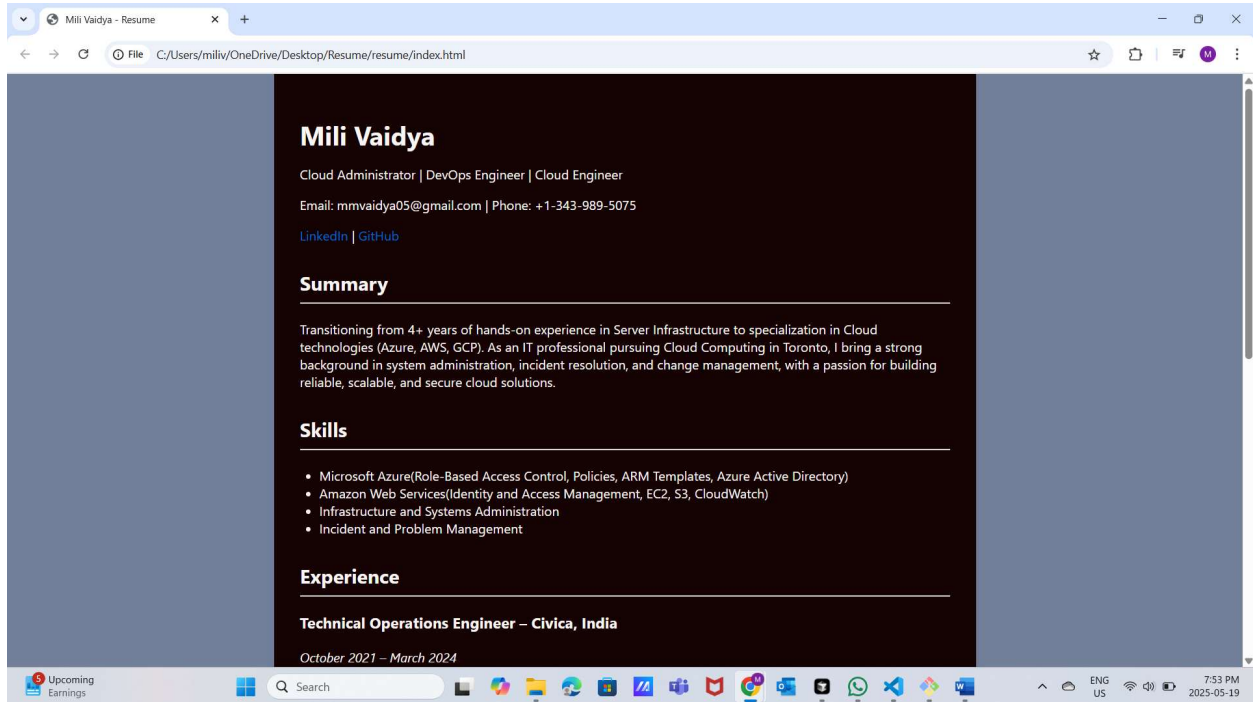


The screenshot shows the Visual Studio Code editor with the 'style.css' file open. The CSS code is as follows:

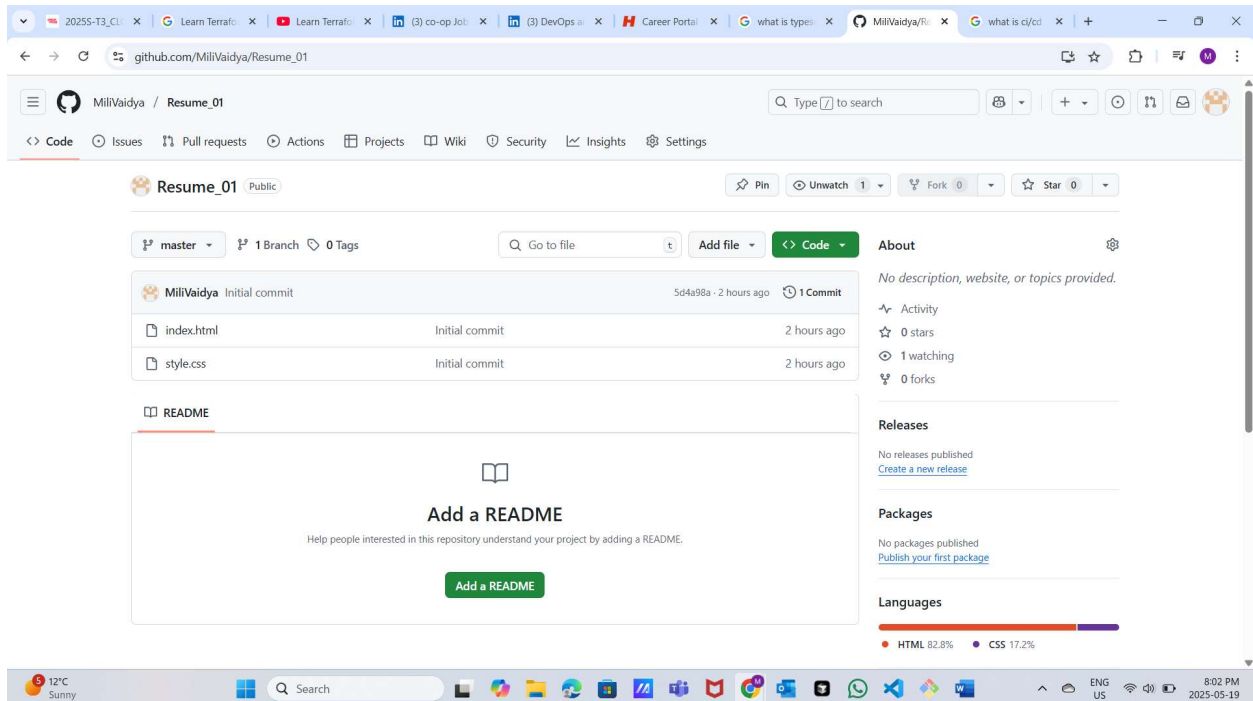
```
1 /* style.css */
2 body {
3   font-family: 'Segoe UI', sans-serif;
4   margin: 0;
5   padding: 0;
6   background-color: #f2f2f2;
7   color: #333333;
8 }
9
10 .container {
11   max-width: 800px;
12   margin: auto;
13   padding: 20px;
14   background-color: #ffffff;
15   box-shadow: 0 0 10px #000000;
16 }
17
18 header, section, footer {
19   margin-bottom: 20px;
20 }
21
22 h1 {
23   margin-bottom: 0.2rem;
24   font-size: 2rem;
25 }
26
27 h2 {
28   margin-bottom: 0.2rem;
29   font-size: 1.5rem;
30 }
```

The bottom panel shows the 'TERMINAL' output, displaying the directory path 'C:\Users\mili\OneDrive\Desktop\Resume\resume' and a file listing for 'resume'.

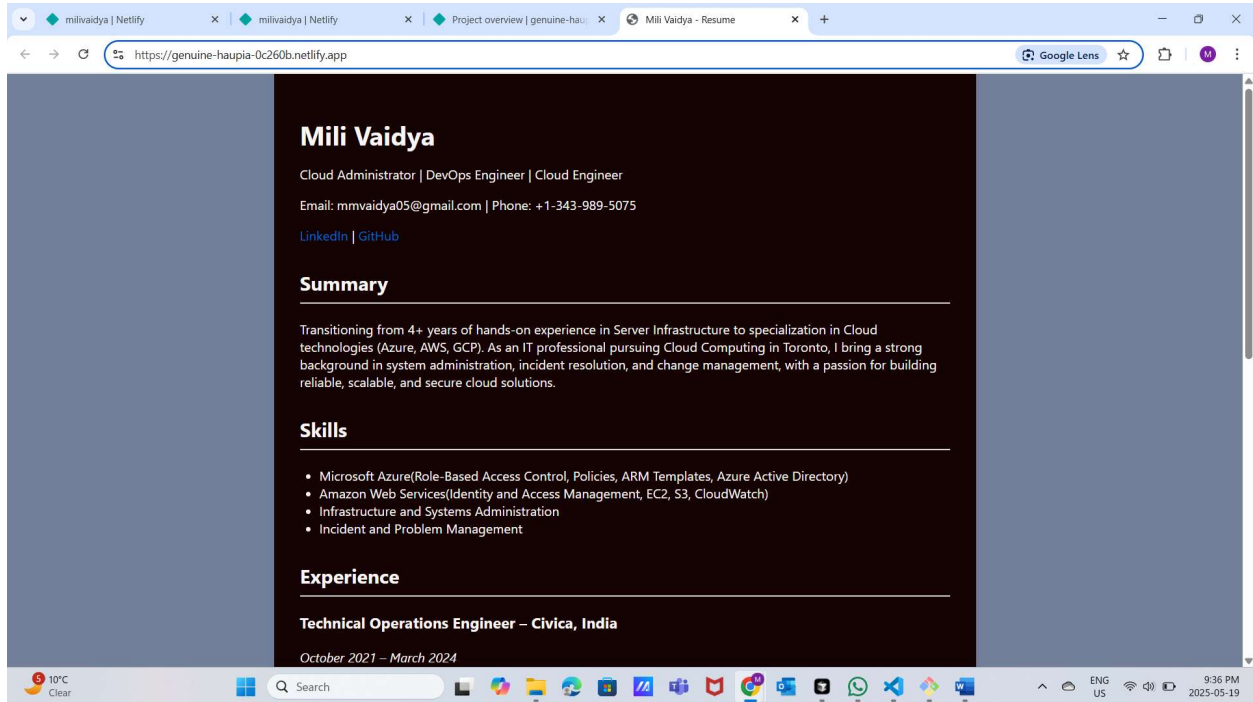
Tried Accessing the index.html in my browser and it shows my Resume.



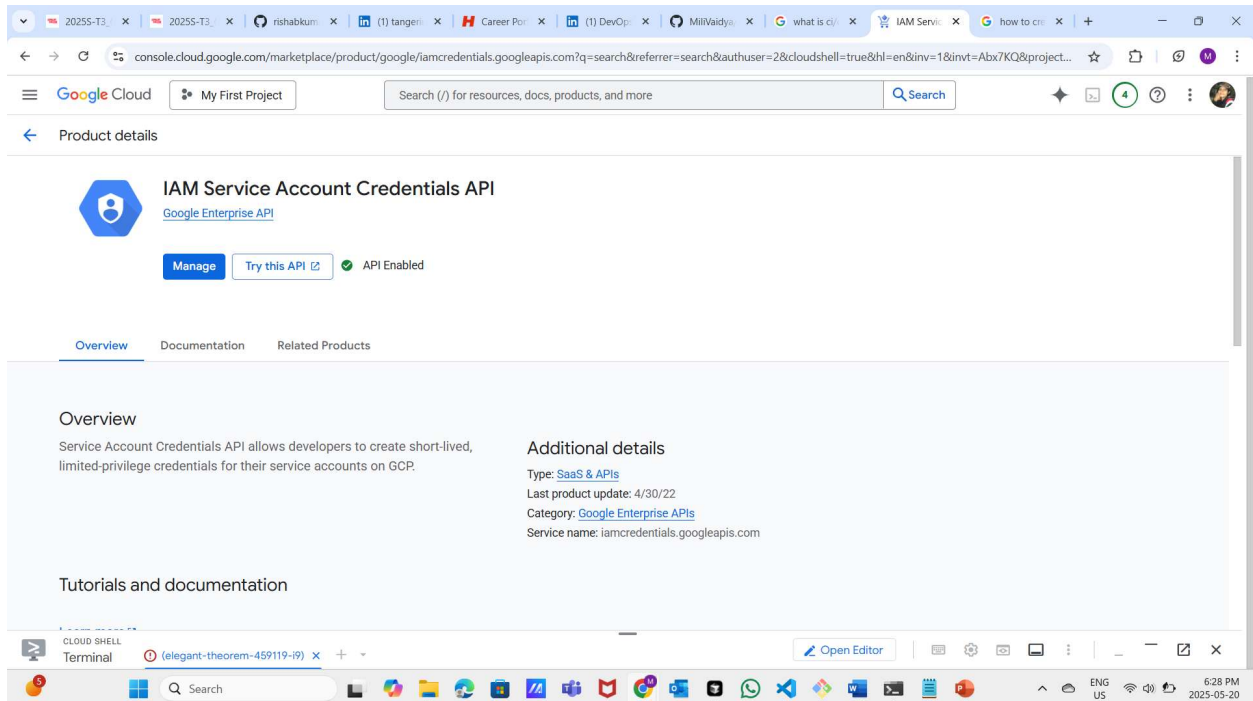
Created a repository – Resume_01 on Github.



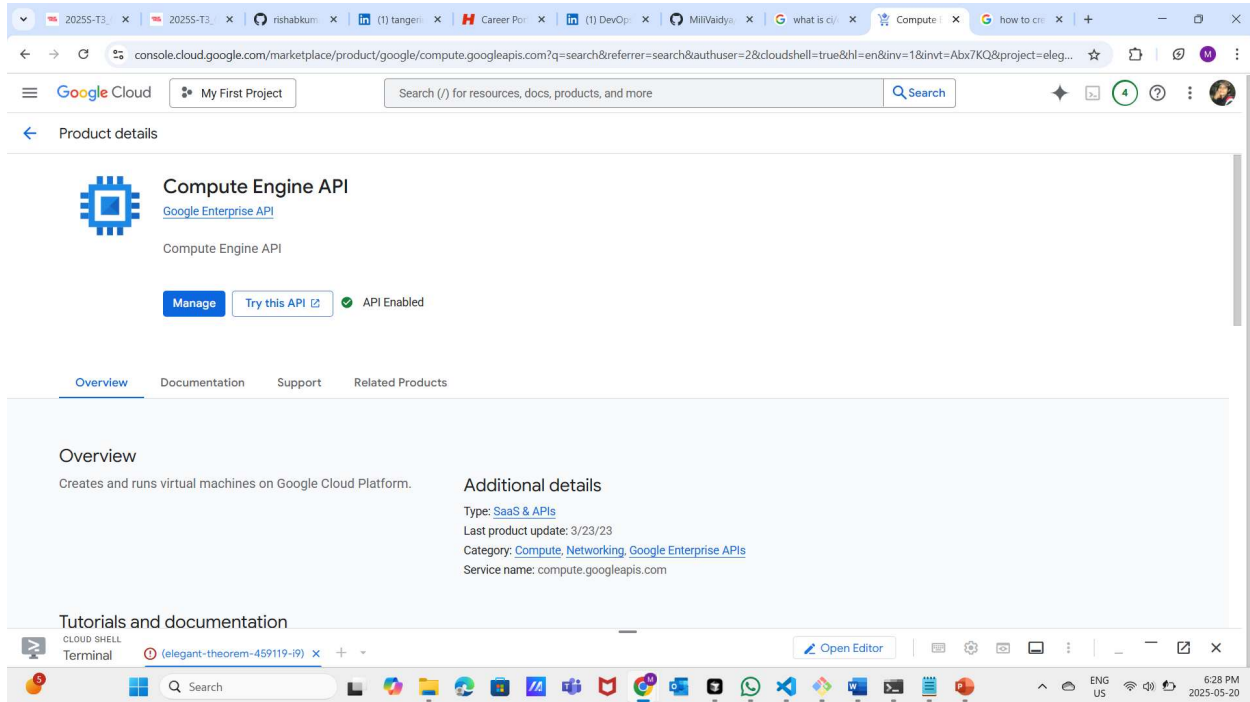
Hosted my website on Netlify.



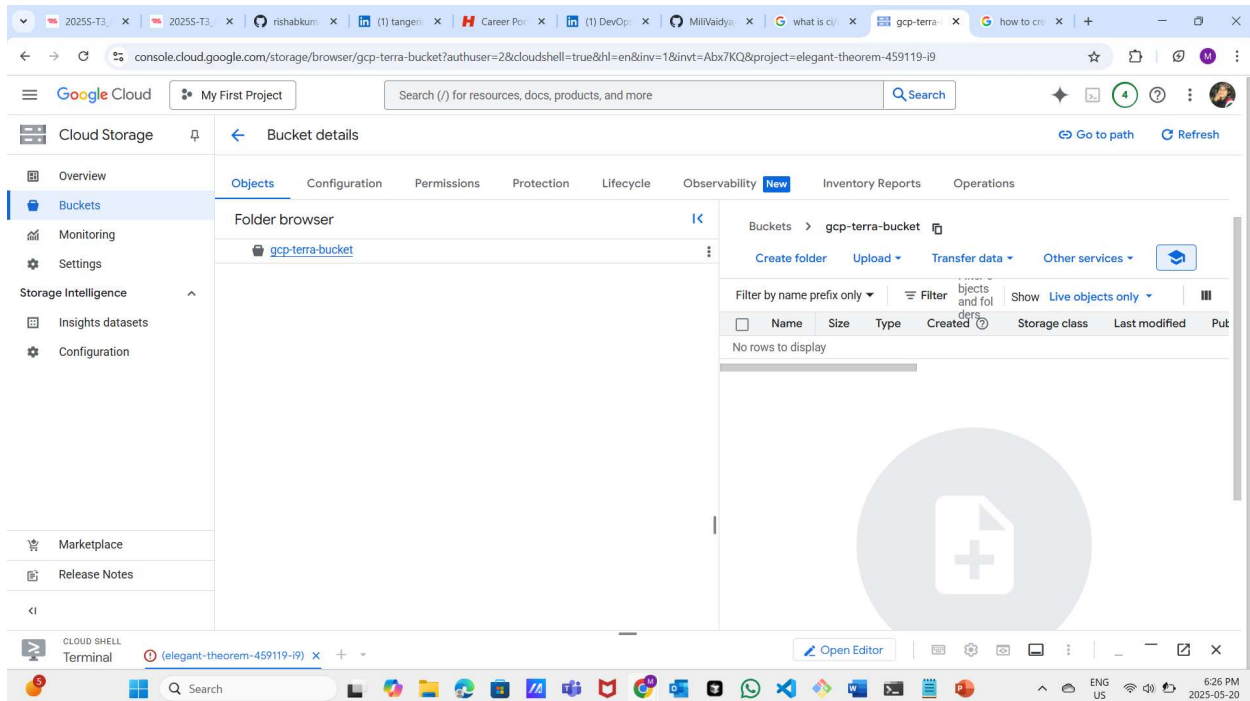
Enabled IAM service account credentials API.



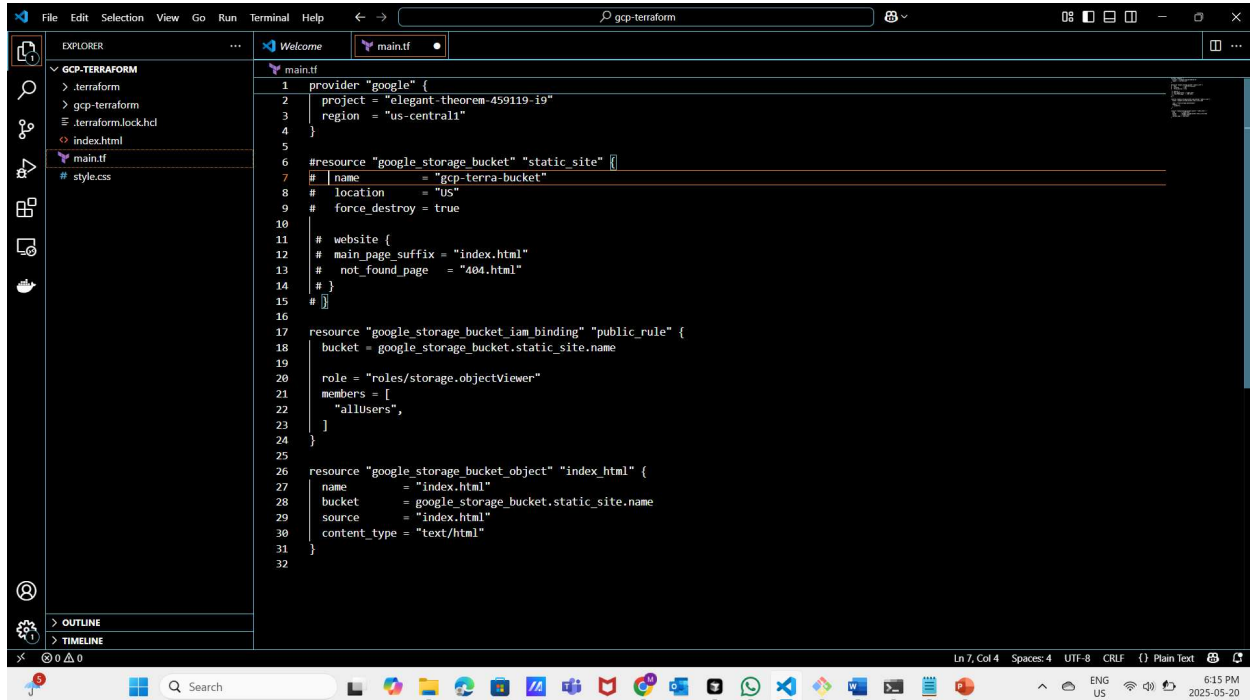
Enabled Compute Engine API.



Created a bucket : gcp-terra-bucket

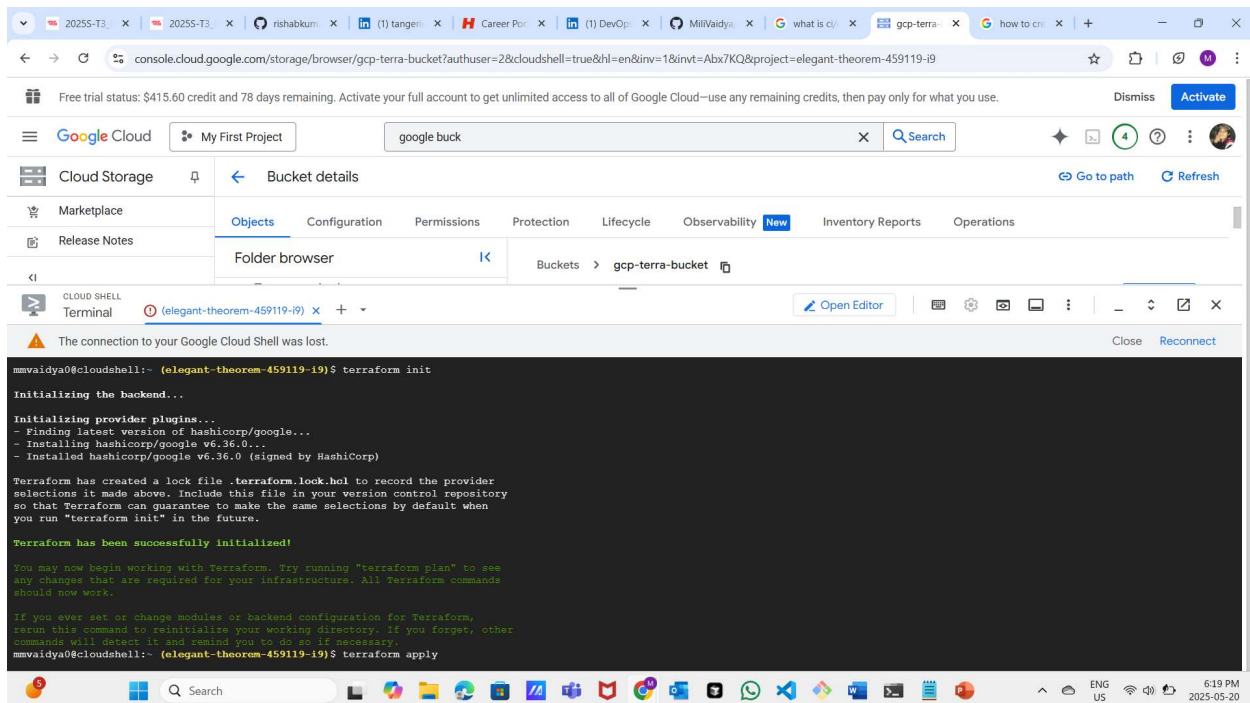


Created the Terraform Configuration File main.tf



```
1 provider "google" {
2   project = "elegant-theorem-459119-i9"
3   region  = "us-central1"
4 }
5
6 #resource "google_storage_bucket" "static_site" {
7   # name      = "gcp-terra-bucket"
8   # location  = "US"
9   # force_destroy = true
10
11   # website {
12   #   main_page_suffix = "index.html"
13   #   not_found_page   = "404.html"
14   # }
15 # }
16
17 resource "google_storage_bucket_iam_binding" "public_rule" {
18   bucket = google_storage_bucket.static_site.name
19
20   role = "roles/storage.objectViewer"
21   members = [
22     "allUsers",
23   ]
24 }
25
26 resource "google_storage_bucket_object" "index_html" {
27   name      = "index.html"
28   bucket    = google_storage_bucket.static_site.name
29   source    = "index.html"
30   content_type = "text/html"
31 }
32
```

Initialized Terraform



```
mmvaidya0@cloudshell:~ (elegant-theorem-459119-i9)$ terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/google...
- Installing hashicorp/google v6.36.0...
- Installed hashicorp/google v6.36.0 (signed by HashiCorp)

Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
mmvaidya0@cloudshell:~ (elegant-theorem-459119-i9)$ terraform apply
```

I uploaded below files by manually uploading in the shell.

index.html

main.tf

style.css

After that I run command terraform apply.

And then tried to access the link <http://gcp-terra-bucket.storage.googleapis.com/index.html>

But I got an error. It was because my resource wasn't public.

So I run the cmd: `gsutil acl ch -u AllUsers:R gs://your-bucket-name/style.css`

This used for interacting with Cloud Storage. `acl` - Access Control List — managed file-level permissions, `ch` - used to modify existing permissions. `-u AllUsers:R` - Grant the "Read" (R) permission to "AllUsers" (i.e., anyone on the internet)

After running this command, I tried to access the link and it worked.

