Computer Networks Project Report

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Website Link: https://calebthang.github.io/comp-network-project1/

Setup Process:

We created our website using GitHub Pages, which is a free hosting service.

Here's what we did:

1. First, I made a GitHub account and created a new repository named "calebthang/comp-network-project1.github.io"

2. Then my partner and I created my website files using VS code:

- Made an index.html file with my website content

- Added CSS for styling to make it look modern and tech-focused

- Made sure everything worked well on both computers and phones

3. To get the website online, we:

- Uploaded the files to the GitHub repository

- Went to Settings > Pages

- Turned on GitHub Pages

- Waited about 5 minutes for the site to go live

Challenges We Faced:

1. Design Challenge:

- Initially, the footer was blocking content on the page

- Fixed it by changing the footer position and adding proper spacing

2. Mobile View Issues:

- The website didn't look right on phones at first

- Solved it by adding special rules for small screens

3. Learning Curve:

- Had to learn how to use GitHub

- Needed to understand how web hosting works

How Networking Principles Were Applied:

1. Domain Names and DNS:

- GitHub Pages gave me a domain name using the GitHub handle

- Learned how DNS turns this domain name into an IP address that computers can understand

- When someone types the website address, DNS servers help direct them to the right place

2. Web Hosting:

- GitHub's servers store our website files

- When someone visits my site, these servers send the files to their browser

- The files travel over the internet using HTTP/HTTPS

3. Security:

- Our site uses HTTPS, which means all information is encrypted

- GitHub Pages automatically provides security certificates

- Visitors see a padlock in their browser showing the site is secure

4. Content Delivery:

- GitHub uses servers around the world to deliver our website faster

- When someone visits our site, they get the files from the server closest to them

- This makes the website load quickly no matter where visitors are located