Module 1 – Foundation

1. What is HTTP?

HTTP stands for **HyperText Transfer Protocol**.
It is the **communication protocol** used for transferring data between a web browser (client) and a web server.
When you visit a website (like `https://example.com`), your browser uses HTTP to **request** the page from the server, and the server **responds** with the webpage.

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2. What is a Browser? How does it work?

A **browser** (like Chrome, Firefox, or Safari) is a **software application** used to access and view websites.

How it works:

1. **You type a web address (URL)** into the browser.
2. The browser sends a **request (using HTTP/HTTPS)** to the server that hosts the website.
3. The server sends back the **HTML, CSS, JavaScript, and media files**.
4. The browser **interprets this code** and displays the website on your screen.

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3. What is a Domain Name?

A **domain name** is the **user-friendly address** of a website.
Example: `www.google.com`

It replaces the numerical IP address of a website (like `142.250.77.206`) with a name that's **easy to remember**.

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4. What is Hosting?

Hosting is the service that **stores website files** (like HTML, images, videos) and **makes them accessible online**.

A **web host** provides:

- **Storage space** for your website
- A **server** to deliver your site to visitors

- **Uptime and support**

Example: Companies like Hostinger, Bluehost, and GoDaddy offer web hosting services.