Training Day 20

Day 20– 17th July 2025

Introduction to Web Hosting and Deployment

Detailed Description:

On Day 20, we explored **web hosting and deployment**, which are crucial for **publishing websites online**. The instructor explained that creating a website is only part of the process; to make it available on the internet, it must be hosted on a **server with a domain name**.

◆ **1. What is Web Hosting**

Key points:

- Web hosting is **storing website files on a server** that is accessible via the internet.

- Types of hosting:

    o **Shared Hosting:** Multiple websites share the same server. Cost-effective but limited resources.

    o **VPS Hosting:** Virtual Private Server. More control and resources.

    o **Dedicated Hosting:** Entire server dedicated to one website. High performance.

    o **Cloud Hosting:** Websites hosted on multiple servers for scalability.

- Popular hosting providers: **Hostinger, Bluehost, GoDaddy, Netlify, Vercel**.

◆ **2. Domain Name**

- A **domain name** is the web address users type to visit a site (e.g., www.example.com).

- Domain names can be purchased from **registrars** like GoDaddy, Namecheap, or provided free by platforms like Netlify.

- Domain + Hosting = Website live on the internet.

◆ **3. Deployment Process**

We learned the **steps to deploy a website**:

1. **Prepare Files**

   o HTML, CSS, JavaScript, images, and other assets organized in folders.

2. **Choose a Hosting Platform**

   o Free: **Netlify, GitHub Pages, Vercel**

   o Paid: **Shared Hosting, Cloud Hosting**

3. **Upload Files**

   o Using **FTP** (File Transfer Protocol) like FileZilla, or drag-and-drop on platforms like Netlify.

   o Example for **GitHub Pages**:

   o git init

   o git add .

   o git commit -m "Initial commit"

- o git push origin main

- o Website becomes accessible via username.github.io/projectname.

4. **Test Website**

- o Check responsiveness, links, and functionality on multiple devices.

◆ **4. Practical Exercise**

- Deployed a **simple portfolio website** on **Netlify**:

  - o Dragged project folder to Netlify dashboard.

  - o Received a live URL to access the website.

  - o Tested on **desktop and mobile** to ensure responsiveness.

- Explored **GitHub Pages deployment**:

  - o Uploaded code to GitHub repository.

  - o Enabled GitHub Pages in repository settings.

  - o Accessed the website online via provided GitHub URL.

Learning Outcomes:

- Understood the concept of **web hosting** and its types.

- Learned the importance of **domain names** for website identity.

- Practiced **deploying a website** using Netlify and GitHub Pages.

- Tested deployed websites for **responsiveness and functionality**.

- Gained confidence in **making websites live and accessible globally**.