Week 2 - Day 08 (7 July 2025)

Understanding Domain Name & Web Hosting

1. What is a Domain Name?

A **domain name** is the address of your website that people type into a browser to visit it. It's like your **home address** on the internet.

Examples:

- Google's domain = google.com

- Your college site might be xyzuniversity.ac.in

Components of a Domain Name:

- **Top-Level Domain (TLD):** .com, .org, .in, .edu, etc.

- **Second-Level Domain (SLD):** The main name (e.g., **google** in google.com).

In short: **Domain = SLD + TLD**

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2. What is Web Hosting?

Web hosting is a service that stores your website's files (HTML, images, videos, databases, etc.) on a server and makes them accessible online. Without hosting, your website cannot be accessed over the internet.

Think of it as:

- **Domain** = Address of your house

- **Hosting** = The actual house where your files (furniture) live

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3. Types of Web Hosting

- **Shared Hosting** – Multiple websites share one server (affordable, suitable for beginners).

- **VPS Hosting** – Virtual Private Server offering more control and dedicated resources.

- **Dedicated Hosting** – Entire server dedicated to one website (high performance, expensive).

- **Cloud Hosting** – Uses multiple servers to ensure reliability and scalability.

- **Managed Hosting** – The provider handles technical management like security, backups, and updates.

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4. How Domain and Hosting Work Together

1. You purchase a **domain name** (e.g., mywebsite.com).

2. You purchase **web hosting** (a space on a web server).

3. You connect the **domain** to the **hosting server** using DNS (Domain Name System).

4. When users type your domain into a browser, it loads the website files stored on your hosting server.

This connection ensures that your website is live and accessible to users worldwide.

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