

Module 2 – Fundamentals of World Wide Web

1. Difference Between Web Designer and Web Developer

Web Designer	Web Developer
Focuses on the look and feel of a website	Focuses on the functionality and code
Uses tools like Photoshop, Figma, HTML, CSS	Uses languages like JavaScript, PHP, Python
Designs layout, colors, fonts, UX/UI	Builds features, logic, and database connections
Creative/visual work	Logical/programming work

Think of a web designer as an **architect** who designs the building, and a web developer as an **engineer** who builds it.

2. What is W3C?

W3C stands for **World Wide Web Consortium**.

It is an **international organization** that develops **standards** for the web (like HTML, CSS, etc.).

Its goal is to ensure that the **web is accessible, open, and works for everyone**, across all browsers and devices.

3. What is Domain?

A **domain** is the **name** of a website that you type into a browser to access it.

Example: `www.facebook.com`

It points to the **IP address** of a website's server but is easier to remember.

4. What is SEO?

SEO stands for **Search Engine Optimization**.

It is the process of improving a website so it **ranks higher in search engines** like Google.

Goals of SEO:

- Increase **visibility**
- Get more **organic (free)** traffic
- Improve **website quality and relevance**

It includes:

- Using **keywords**
 - Improving **site speed**
 - Having **mobile-friendly design**
 - Creating **quality content**
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5. What is SDLC (Software Development Life Cycle)?

SDLC is a step-by-step process followed to develop software efficiently.

Phases of SDLC:

1. **Planning** – Understand what needs to be built
2. **Analysis** – Gather requirements
3. **Design** – Design how it will work
4. **Development** – Write the actual code
5. **Testing** – Check for bugs and issues
6. **Deployment** – Release the software
7. **Maintenance** – Fix issues and update after release

It ensures that software is developed **systematically**, with **quality** and **on time**.