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**Introduction to Web Development**

**Module 1 - What is Web Development?**

**Web Development** is the process of creating websites and web applications that run on the internet. It involves everything from building a simple static webpage to complex web-based applications, e-commerce platforms, and social media networks.



**Types of Web Development**

**Frontend Development (Client-side)**

- User Interface (UI): Focuses on what users see and interact with in their browser (layout, buttons, forms, etc.).
- Core Technologies: Uses HTML, CSS, and JavaScript to build responsive and interactive websites.

- What users see and interact with.
- Technologies:
  - HTML (HyperText Markup Language): Structure of the web page.
  - CSS (Cascading Style Sheets): Styling and layout.
  - JavaScript: Interactivity and dynamic behavior.

**Backend Development (Server-side)**

- Server Logic & Databases: Handles data processing, user authentication, and database communication.
- Programming Languages: Uses languages like Node.js, Python, PHP, Ruby, or Java.

- What happens behind the scenes.
- Technologies:
  - Programming languages like Python, JavaScript (Node.js), PHP, etc.
  - Databases like MySQL, PostgreSQL, MongoDB.
  - Servers and frameworks (e.g., Express, Django).

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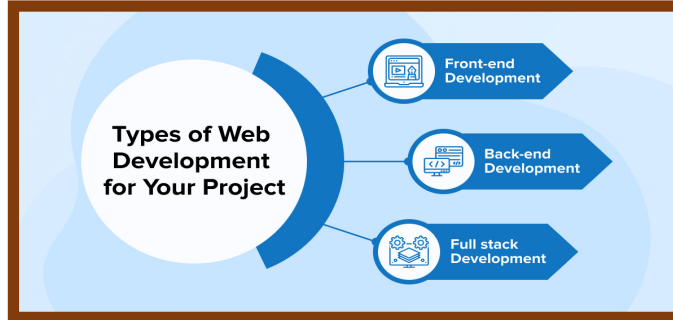
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**Introduction to Web Development**

**Full-Stack Development**

- Combines frontend and backend skills.
- Full-stack developers work across the entire stack of technologies.



**Importance of Web Development**

Web development is used to create websites and web applications that allow users to access and interact with content or services over the internet. It's essential for both personal use and business operations in today's digital world.

**Features of Web Development**

- **User-Friendly Interface:** Designs intuitive and easy-to-navigate websites.
- **Responsive Design:** Ensures the website works well on desktops, tablets, and smartphones.
- **Cross-Browser Compatibility:** Supports multiple browsers (Chrome, Firefox, Safari, etc.).
- **Dynamic Content:** Uses databases and scripting to display updated and personalized content.

**NOTE:** Front-end development refers to the client-side (how a web page looks). Back-end development refers to the server-side (how a web page works).

**Assignment**

**Q1. (Simple)**

Which of the following technologies is primarily responsible for adding style and layout to a web page?

- a) HTML
- b) CSS
- c) JavaScript
- d) Python

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Q2. (Simple)

Which type of web development deals with user interaction and visual design?

- a) Backend Development
- b) Frontend Development
- c) Full-Stack Development
- d) Database Management

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Q3. (Medium)

Which of the following is an example of a backend programming language?

- a) Python
- b) HTML
- c) CSS
- d) Photoshop

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Q4. (Hard)

A website is created to display **dynamic content** based on user preferences, such as showing personalized news feeds. Which combination of technologies is MOST likely being used?

- a) HTML + CSS only
- b) HTML + CSS + JavaScript (Frontend only)
- c) Backend server + database + frontend technologies
- d) Photoshop + Word

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