

Introduction to Web Development Web development is the process of building and maintaining websites. It includes aspects such as web design, web publishing, web programming, and database management. Web development can be divided into two main categories: **Front-End**

Development: The part of the website users interact with directly. It involves HTML, CSS, and JavaScript. **Back-End Development:** The server-side of websites. It involves databases, server logic, and application functionality using languages like Node.js, Python, PHP, etc.

Front-End Technologies The front end is what users see and interact with. It requires knowledge of:

HTML: The structure of a webpage. **CSS:** The styling of a webpage. **JavaScript:** Adds interactivity and dynamic content. Modern frameworks and libraries include React, Angular, and Vue.js. They simplify UI development and improve performance.

Back-End Technologies The back end focuses on server, database, and application logic. Popular technologies include: **Node.js:** JavaScript runtime for building fast applications. **Python (Django, Flask):** Powerful back-end frameworks. **PHP:** Widely used for web apps like WordPress.

Databases: MySQL, MongoDB, and PostgreSQL are commonly used. Full-stack developers work with both front-end and back-end technologies. The demand for full-stack developers is high due to their versatile skillset.