

Web Development

What Are Web Technologies?

- Web technologies are the various tools and techniques that are utilised in the process of communication between different types of devices over the internet.
- To understand this term in a better manner, lets break it down into two pieces: web and technology.
- The web, in this case, refers to the World Wide Web, more commonly known as WWW.

What Are Web Technologies?

contd.

- It first came into being in 1989 when famous scientist and engineer, Tim Berners-Lee, came up with an efficient mechanism to share resources between scientists all over the world.

What Are The Different Types Of Web Technologies?

- Since we have a limited space to examine the wide array of web technologies available, we have picked a few that are used most often by both beginners and experts in the industry.
- The basics, which will cover web browsers and some web app development fundamentals 2.
- Programming languages and frameworks which are used in the development of websites 3.

What Are The Different Types Of Web Technologies? contd.

- Databases that are used at the backend to store data required or collected by websites 4.
- Some protocols, that is, rules for communicating on the web 5.

The Basics

- In this section, we will talk about web browsers and some other web fundamentals.

Web Browsers

- Web browsers, often just called browsers, make it possible for us to view all the resources that are part of the World Wide Web.
- You can think of the server as a combination of software and hardware that receives the clients requests and then sends the requested resource to the client.
- Whenever you enter a URL into a browsers address bar, it relays your request to the server and then fetches and displays whatever the user requested for.

Web Browsers contd.

- Some popular web browsers are Opera, Mozilla Firefox, Google Chrome, and Safari.

Frontend Vs Backend Development Technologies

What is web development?

- Web development refers to the process of creating websites.
- This process is based on a number of steps, which we will cover in more detail when we explore the tools involved in each process.

The two parts of a typical website

- As we go further, we will discuss individual web development technologies and tools used to create websites.
- But before that, we need to be clear on the two distinct parts of a website: the frontend and the backend.
- Frontend refers to all those parts of a website that a user can see on their screen and interact with.

The two parts of a typical website contd.

- A typical user is generally unaware of what goes on at the backend.