Introduction to Web Development

Web App Dev Guide · Module 1 of 8 · CHERIEDU Dev Series

1. What is Web Development?

Web development is the process of building websites and web applications that run in a browser. Every website you visit — from Google to your school portal — was built by web developers.

2. The 3 Layers of the Web

Layer	Technology	What It Does
Structure	HTML	Defines the content and layout skeleton
Presentation	CSS	Controls colours, fonts, spacing, animations
Behaviour	JavaScript	Makes the page interactive and dynamic

3. Frontend vs Backend

Type	What You Build	Technologies
Frontend	What users see & interact with	HTML, CSS, JS, React, Vue
Backend	Server logic & database	Node.js, Python, ASP.NET, MySQL
Full Stack	Both frontend and backend	All of the above

4. How a Web Page Loads

1. You type a URL in your browser (e.g. cheriedu.com).
2. Browser sends a request to a web server (DNS lookup).
3. Server responds with HTML, CSS, and JavaScript files.
4. Browser reads HTML, applies CSS styles, runs JavaScript.
5. Page appears on your screen — fully interactive.

5. Tools You Need to Start

- VS Code (code editor) — free at code.visualstudio.com
- Chrome DevTools — press F12 in Chrome to inspect any website
- Git — version control for your code (git-scm.com)
- Node.js — run JavaScript outside the browser (nodejs.org)

6. Career Paths in Web Development

Role	Focus	Avg Salary (India)
Frontend Developer	UI, React, CSS animations	[1]4–12 LPA
Backend Developer	APIs, databases, security	[1]5–15 LPA

Full Stack Developer

End-to-end development

Web Architect

System design, scalability

YOUR FIRST TASK

Open VS Code. Create a file called index.html. Type: <h1>Hello Web!</h1>. Open it in Chrome. Congratulations — you just built your first webpage!