

Modern Web Development Guide

by Jane Developer

Chapter 1: Introduction to Modern Web Development

Web development has evolved significantly over the past decade. Modern frameworks like React, Angular, and Vue.js have revolutionized how we build user interfaces.

TypeScript has become increasingly popular due to its type safety and enhanced developer experience. It provides compile-time error checking and better IDE support.

Chapter 2: Backend Development

Node.js has made JavaScript a viable option for server-side development. Frameworks like Express.js, NestJS, and Fastify provide robust solutions for building APIs.

Database integration is crucial for most applications. Popular choices include PostgreSQL, MongoDB, and Redis for different use cases.

Chapter 3: Testing and Quality Assurance

Testing is essential for maintaining code quality. Unit tests, integration tests, and end-to-end tests each serve different purposes in ensuring application reliability.

Tools like Jest, Cypress, and Playwright have made testing more accessible and powerful. Automated testing pipelines help catch issues early.