**🔧 Tech Stack for a Modern E-commerce Website**

**🖥️ Frontend (UI)**

* **Framework**: [**Next.js**](https://nextjs.org/) – Full-stack React framework with SSR, SEO-friendliness, and API routes.
* **Styling**:
  + **Tailwind CSS** – Rapid UI development with utility-first classes.
  + **ShadCN UI** or **Radix UI** – For accessible components with full design control.
* **State Management**:
  + **Zustand** or **Redux Toolkit** – Zustand is simpler, great for modern apps.
* **Payment Integration**:
  + **Stripe** – Easy to integrate, globally used, developer-friendly.
* **Form Handling**:
  + **React Hook Form + Zod** – For form validation and type-safe schemas.

**🛠️ Backend (API & Logic)**

* **Framework**:
  + **Next.js API Routes** (for small apps) or
  + **NestJS** (if building a large backend service)
* **Authentication**:
  + **NextAuth.js** or **Auth.js** – Secure, flexible auth for email/password, OAuth (Google, GitHub, etc).
* **Database ORM**:
  + **Prisma** – Modern, type-safe ORM with auto-generated queries and migrations.
* **Server-side Runtime**:
  + **Node.js** (via Vercel, Render, or your own infra)

**🗄️ Database**

* **PostgreSQL** – Relational, powerful, widely supported.
* **Redis** (optional) – For caching, cart sessions, etc.

**☁️ Hosting / DevOps**

* **Frontend + API Hosting**: **Vercel** (best with Next.js) or **Netlify**
* **Database Hosting**:
  + **Neon**, **PlanetScale**, or **Supabase** (also supports edge functions and auth)
* **CI/CD**:
  + GitHub Actions or built-in CI on Vercel

**🛍️ E-commerce Features (Add-ons)**

* **CMS (for content pages)**:
  + **Sanity**, **Strapi**, or **Contentful**
* **Product Management**:
  + Can be custom built or integrate with **Shopify Headless API**
* **Search**:
  + **Algolia** or **Meilisearch** for fast product search.
* **Email Service**:
  + **Resend**, **SendGrid**, or **Postmark**

**👨‍💻 Why this stack?**

* **Dev-friendly** with hot reload, type safety (TypeScript), and intuitive APIs.
* **Scalable** as your traffic and products grow.
* **Ecosystem rich** – Massive libraries, docs, community support.
* **Easy onboarding** for other devs – especially if they’re familiar with React.