

E-Commerce Platform Technology Stack and Tools Documentation

Category	Tools/Technologies	Purpose/Usage
Frontend	- Next.js : React-based framework	Building a highly responsive, scalable, and dynamic user interface.
	- TypeScript : Static typing	
	- Tailwind CSS : Utility-first styling framework	
	- ShadCN : Prebuilt components library	
UI/Design	- Figma : Pixel-perfect UI design	Crafting and prototyping pixel-perfect UI layouts for web and mobile platforms.
	- Custom templates optimized for design consistency	
Backend	- Sanity CMS : Headless content management system	Managing and delivering dynamic content efficiently.
API	- REST	Enabling communication between frontend and backend.
Third-Party Solutions	- Payment Gateway : PayPal	Handling secure online transactions and real-time shipment tracking.
	- Shipment Integration : DHL ShipEngine API	
Version Control	- Git : Managed with GitHub or Bitbucket	Source code versioning and team collaboration.
Development Tools	- VS Code : Code editor	Ensuring code quality, consistency, and debugging efficiency.
	- ESLint & Prettier : Code quality and formatting tools	
Testing Tools	- Jest : Testing framework for JavaScript	Automating unit and integration testing.
	- Cypress : End-to-end testing	
Deployment	- Vercel : Hosting and deployment platform for Next.js	Deploying a performant and scalable e-commerce platform.
Analytics & Monitoring	- Google Analytics : Traffic analysis	Tracking performance, user activity, and resolving bugs in real-time.
	- Sentry : Error tracking and monitoring	