**Business Requirement Document (BRD)**

**Project Title:** E-Commerce Website using nopCommerce  
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**Version:** 1.0

**1. Introduction**

The proposed solution involves building a scalable, secure, and feature-rich e-commerce platform using nopCommerce. To validate the planned functionality and flow, reference will be made to the official nopCommerce demo site (demo.nopcommerce.com) for the storefront experience, and the admin demo (admin-demo.nopcommerce.com) for the backend capabilities. These live environments serve as real-world benchmarks for confirming the Business Requirement Document’s content.

**2. Business Objectives**

* Deliver a seamless and secure customer shopping experience, mirroring the front-end performance and design of the demo store.
* Streamline management of products, customer accounts, orders, shipping, and payments through an enhanced backend interface.
* Enable full mobile responsiveness and implement strategies such as clean URLs and metadata, consistent with the demo site’s structure.
* Leverage nopCommerce’s inherent support for multi-store and multi-vendor functionality when needed.

**3. Scope**

**In Scope**

* Designing and developing a front-end mirroring the homepage, product showcases, and category layout seen on the nopCommerce demo site.
* Product catalog setup with filtering, search, sorting, and pagination.
* User registration, login, and account features.
* Shopping cart and checkout workflows.
* Payment gateway integration (e.g., Stripe, PayPal).
* Shipping and tax configuration scripts.
* Admin dashboard with product/order/user management.

**Out of Scope**

* Mobile applications unless requested for future phases.
* ERP integration—only standard plugins will be implemented initially.
* Multilingual and multi-currency support unless scoped later.

**4. Stakeholders**

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| --- | --- |
| **Role** | **Responsibility** |
| Business Owner | Defines vision and approves budget and project scope |
| Project Manager | Oversees timeline, delivery, and coordination |
| Development Team | Implements both front-end and back-end features aligned with demo |
| QA/Testers | Verifies functionality and performance against demo benchmarks |
| Marketing Team | Ensures SEO and user engagement strategies match demo site |
| Support Team | Manages post-launch support and maintenance |

**5. Business Requirements**

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| --- | --- |
| **ID** | **Description** |
| BR-001 | The storefront will mirror the homepage, preferences, and features shown on demo.nopcommerce.com |
| BR-002 | Users can register, log in, and manage their accounts similar to the demo site |
| BR-003 | Secure checkout flow, emulating the demo experience with order and email confirmations |
| BR-004 | Admin panel must offer product and user management as seen in the admin demo |
| BR-005 | Support wishlist, product reviews, and comparisons — features visible in the live demo |
| BR-006 | Support vendor functionality following the layout and permissions found in admin demo |

**6. Functional Requirements**

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| --- | --- |
| **Feature** | **Description** |
| User Roles | Guest, Registered, Admin, Vendor (optional) |
| Frontend Homepage | Banner, Featured Products, Categories (as in demo site) nopCommerce |
| Product Listing & Filtering | Sorting, pagination, filters (price, brand, etc.) reflective of demo UI |
| Product Detail | Images, add-to-cart, wishlist, compare, specifications, reviews |
| Account Dashboard | Order history, wishlist, addresses — matching the “My account” flow nopCommerce |
| Cart & Checkout | Add/remove items, apply discounts, select shipping/payment, checkout |
| Admin Dashboard | Metrics like orders, customers, low stock & bestsellers — per admin demo nopCommerce |
| Responsive Design | Mobile support and performance implicit in demo site functionality |

**7. Non-Functional Requirements**

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| --- | --- |
| Area | Specification |
| Performance | Fast loading pages (demo loads in <1 second) |
| Scalability | Support large product catalogs—demo handles varied sample data |
| Security | HTTPS by default on demo; will deploy SSL and encrypted data transfer |
| Responsiveness | Fully responsive—media queries detected in audit |
| Browser Support | Compatible with modern browsers like demo site |

**8. Integrations**

* Payment gateways: Stripe, PayPal
* Shipping: UPS, FedEx, DHL APIs
* Email: SMTP or SendGrid
* Analytics: Google Analytics, Facebook Pixel
* Optional social login: Google, Facebook, Apple

**9. Assumptions**

* The solution will mirror the base functionality of the official nopCommerce demo site without relying on third-party or custom plugins unless otherwise specified.
* Admin users will receive basic training and reference documentation to manage the website via the nopCommerce backend.
* Deployment will follow standard nopCommerce installation and configuration practices, reflecting the setup seen in the official demo environment.
* nopCommerce will be hosted on a compatible Windows Server environment.
* The default theme and plugins provided by nopCommerce will be sufficient for launch with minor UI customizations.

**10 Constraints**

* No mobile application will be developed or released in the initial phase. The focus remains on a responsive web interface.
* ERP or third-party system integrations are excluded from the initial launch scope and may be considered in later phases.
* Multilingual and multi-currency support will not be implemented during the first release. These features are postponed for future expansion based on business needs**.**

**11. Timeline**

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| **Phase** | **Duration** |
| Requirements Gathering | 3 days |
| UI/UX Design | 1 week |
| Development | 3–4 weeks |
| Testing (QA/UAT) | 1 week |
| Deployment | 2 days |

**12. Deliverables**

* Fully functional nopCommerce site matching the frontend experience of the demo (e.g., homepage layout, product flows)
* Admin backend mirroring demo dashboard and management capabilities
* Configured product catalog, search, filters, and account workflows
* Secure cart and checkout integration with payment and shipping
* Email notification templates (order, account)
* Role-based access control (Guest, User, Admin, Vendor)
* Analytical reports: sales, inventory, customer activity
* Administrative documentation and training guides
* Source code and deployment scripts
* QA test cases and UAT environment
* Production deployment and support for an agreed period

**13. Reporting & Analytics**

* Sales reporting: daily, weekly, monthly
* Customer registration trends
* Inventory alerts for low-stock
* Optional abandoned cart reporting via plugin (consistent with demo capabilities)