**Business Requirements Document (BRD)**

**Project Title: E-Commerce Application Development**

**Version:** v1.0  
**Date:** 18-07-2025  
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**1️⃣ Document Purpose**

This document outlines the business needs and requirements for developing an **E-Commerce Application** that will allow customers to browse products, place orders, and make payments online. It serves as a formal agreement between stakeholders and the project team.

**2️⃣ Project Overview**

* **Objective:** To develop a responsive, scalable, and secure e-commerce platform for selling products online.
* **Target Users:** End customers (B2C).
* **Business Goal:** Increase online sales, improve customer reach, and enhance the digital shopping experience.

**3️⃣ Business Objectives**

* Enable 24/7 product availability and sales.
* Provide secure and easy online payment options.
* Simplify inventory and order management for admins.
* Offer promotions, discounts, and loyalty programs to boost sales.

**4️⃣ Scope of Work**

**In Scope:**

* User registration and login.
* Product catalog with search and filter.
* Shopping cart and checkout process.
* Multiple payment gateway integrations.
* Order tracking.
* Admin dashboard for inventory, orders, and reports.

**Out of Scope:**

* Physical store management.
* Wholesale/B2B features.
* Multi-vendor marketplace

**5️⃣ Stakeholders**

| **Name** | **Role** | **Responsibility** |
| --- | --- | --- |
| [Project Sponsor] | Sponsor | Approvals, funding decisions |
| [Project Manager] | PM | Project planning and execution |
| [Product Owner] | Business Lead | Requirement clarification |
| [Development Lead] | Technical Lead | Solution architecture |
| [QA Lead] | Quality Assurance | Testing and validation |

**6️⃣ Current State (As-Is Process)**

* Sales are limited to physical stores.
* Inventory management is handled manually.
* No online presence or digital sales channel.

**7️⃣ Future State (To-Be Process)**

* Customers browse and buy products online.
* Inventory updates automatically after each sale.
* Admins manage products, orders, and customers from a centralized dashboard.

**8️⃣ Business Requirements**

| **Req ID** | **Requirement Description** | **Priority** |
| --- | --- | --- |
| BR-001 | User registration, login, and password management. | High |
| BR-002 | Browse product catalog with search, filter, and sorting options. | High |
| BR-003 | Add items to shopping cart and manage cart items. | High |
| BR-004 | Secure checkout with multiple payment options (Credit Card, UPI, Wallets). | High |
| BR-005 | Order confirmation email/SMS notification to customer. | Medium |
| BR-006 | Order tracking functionality for customers. | Medium |
| BR-007 | Admin panel for managing products, orders, customers. | High |
| BR-008 | Reports: Sales, revenue, inventory stock. | Medium |
| BR-009 | Promo codes and discount management. | Medium |

**9️⃣ Assumptions and Constraints**

**Assumptions:**

* Payment gateways like Razorpay or PayU will be used.
* Hosting on AWS or Azure.

**Constraints:**

* Must comply with PCI-DSS standards for payment data security.
* Project timeline is limited to 12 weeks.

**🔟 Dependencies**

* Third-party payment gateway integrations.
* Inventory management API (if integrated with existing ERP).

**1️⃣1️⃣ Acceptance Criteria**

* End-to-end user journey from product browsing to successful checkout.
* Secure payments and order confirmation.
* Admin should be able to manage products and view reports.

**1️⃣2️⃣ Approval**

| **Name** | **Role** | **Signature** | **Date** |
| --- | --- | --- | --- |
| [Project Sponsor] | Sponsor |  |  |
| [Product Owner] | Business Lead |  |  |
| [Project Manager] | PM |  |  |