

Project Scope & Requirements

Generated by Kenkai Labs AI Assistant

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Executive Summary

This document outlines the comprehensive scope, technical requirements, and implementation strategy for your E-commerce. Based on our AI-powered analysis, we've identified key deliverables, optimal technology stack, and a phased approach to ensure successful project delivery.

1. Project Overview

Project Type:	E-commerce
Business Objective:	Increase Revenue
Target Timeline:	ASAP (Rush job)
Budget Range:	Under \$25k

2. Recommended Technical Architecture

Platform:

Next.js with Shopify/Stripe integration for payments

Payment Gateway:

Stripe for secure payment processing with PCI compliance

Database:

PostgreSQL for products/orders, Redis for cart/session management

Search:

Algolia or Elasticsearch for fast product search and filtering

DevOps:

GitHub Actions for CI/CD, automated testing and deployment

Monitoring:

Sentry for error tracking, Vercel Analytics for performance

3. Key Deliverables

1. Fully functional and tested application
2. Source code repository with documentation
3. Deployment to production environment
4. Technical documentation and API specifications
5. User/Admin training materials
6. Secure user authentication system with password reset
7. Payment gateway integration with transaction management
8. Comprehensive admin dashboard with analytics
9. Third-party API integrations with error handling
10. 30 days of post-launch support and bug fixes

Phase 2: Design & Prototyping

Duration: 1-2 weeks

UI/UX design, wireframes, interactive prototypes, and design system creation with stakeholder feedback.

Phase 3: Core Development

Duration: 3-6 weeks

Backend API development, database schema implementation, frontend component development, and feature integration.

Phase 4: Testing & QA

Duration: 1-2 weeks

Comprehensive testing including unit tests, integration tests, user acceptance testing, and security audits.

Phase 5: Deployment & Launch

Duration: 1 week

Production deployment, performance monitoring setup, final bug fixes, and official launch with documentation.

5. Success Metrics & KPIs

- Conversion rate increase of 15-25%
- Average order value growth
- System uptime >99.5%
- Zero critical security vulnerabilities
- Mobile responsiveness score >95%

6. Risk Mitigation Strategy

- Scope Creep: Weekly sprint reviews with clear acceptance criteria and change request process
- Technical Debt: Code review standards, automated testing with >80% coverage, and refactoring sprints
- Timeline Delays: Buffer time in estimates, daily standups, and proactive risk identification
- Security Vulnerabilities: Regular security audits, dependency updates, and penetration testing
- Integration Issues: Early API testing, sandbox environments, and fallback strategies
- Performance Problems: Load testing, CDN implementation, and database query optimization

Next Steps

1. Schedule a discovery call to refine requirements
2. Conduct technical feasibility assessment
3. Finalize project timeline and resource allocation
4. Sign Statement of Work and begin Phase 1

Estimated Timeline: 8-10 weeks | Investment: Under \$25k

This is a preliminary estimate. Final scope will be determined after discovery phase.

Contact: hello@kenkailabs.com | www.kenkailabs.com